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# *Cumberland Valley Nurseries* INCORPORATED

**McMinnville, Tennessee**

**FALL • 1944**

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## *Fruit and Flowers Planting Guide*

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**SPRING • 1945**

### **OFFERING**

**Complete Line of Nursery Stock  
Direct to Grower**



**Catering Especially to  
Extension Service Workers  
Send Us Your Co-operative Orders**

Nursery and Office Located on U. S.  
Highway No. 70 South, 1 Mile West,  
McMinnville, Tennessee

**Where Better Nursery Stock Is Grown**





## TO OUR FRIENDS:

When they come home, the boys and girls in service must not be disappointed in the land they left—nor in what those behind have done with it. To make America more fruitful and beautiful is the nurseryman's mission in wartime as in peacetime.

Nurserymen of the nation have definitely proven the great value of their product and their services in assisting the war effort. Nursery products as a basic food crop and for camouflage have been recognized as essential farm crops and have been given special ratings.

Now is the time to plant. U. S. Government authorities are urging a large increase of family tree plantings to take care of the alarming decline of fruit production. Health authorities recommend eating twice as much vitamin-packed fruit. Many well known authorities predict that within a few years fruit production will be so low that only those who grow their own will have enough to supply their family requirements.

Our Fruit and Nut Trees are selected for their fruitfulness, their vigor, and for their adaptability over a large area. Our Ornamental Shrubs are likewise selected for their desirability and satisfaction under various conditions. We have placed emphasis on growing those things this season which will contribute most toward winning the war, by growing more Fruit and Nut Trees, even with our acute shortage of labor.

Even though we have tried to produce a maximum of Fruit and Nut Trees, the demand has increased much faster than our production. There can be only one result. Supplies will move fast, and many late buyers will be disappointed. It has always been advisable to place your order for nursery stock early, and this year it is more important than ever.

While food is important, let's not lose sight of the importance of attractive home grounds, beautified with trees and shrubs, which helps us to keep our morale up. Also, when our boys and girls come home victorious, we'll want home to be more attractive and look more inviting than ever before. Now is the time to start. Due to war conditions, we do not have our usual wide selection of Ornamentals, but those listed are excellent value.

We may not have what you need or want, but it will not be because we are disinterested and independent and are trying to throw up that old worn and frazzled screen, "DON'T YOU KNOW A WAR'S ON?" to hide our apparent independence. Sure, we can sell nearly everything we can grow now, but next year we may be able to grow more than we can sell; that is, if we are NOT interested in you today.

Thanking you for the fine business you have given us in the past, and with the hope that we may merit your continued patronage, we remain

Yours very truly,

CUMBERLAND VALLEY NURSERIES, INC.

J. R. BRAGG, President

### TERMS AND CONDITION OF SALE

Regardless of increased costs of production (our labor costs have doubled over what they were last season, and other costs have advanced proportionately), you will find very little increase in our prices. We have made them as low as possible for your benefit. Higher priced trees cannot be better; lower priced trees must be inferior in some ways. Consider the quality of trees you buy and the reputation of the nursery from whom you buy. Thrifty, hardy, dependable planting stock leads to success. This cancels all former lists.

**Varieties:** Our listing of New Varieties and Selected Types of Older Varieties point the way to greater production, greater consumer satisfaction, and greater profits to the grower. We propagate our stock under careful conditions and are careful to keep each variety true to name, being ready at all times to replace, upon proper proof, any that proves otherwise. Further than this, we are not responsible.

**Shipping Season:** We begin filling orders about October 15th and continue shipping during the entire fall, winter, and spring until about May 1st, or as long as stock remains dormant. We pride ourselves on making prompt delivery, but sometimes during the rush season it is impossible to handle orders just as they come in, and we must ask your indulgence for a week or so. We strongly recommend Fall planting where possible.

**Guarantee:** Every tree and plant we ship is guaranteed to be strictly first class, free from injurious diseases and insects, and to reach you in good condition. Any time trees or plants are received that do not meet these standards, they will be replaced free of charge or your money refunded. Continued growth depends on soil, weather conditions, planting, and aftercare. After ten days it is mutually understood that the nursery stock is satisfactory; however, we will replace nursery stock that dies from unavoidable causes at half price, if notified within two months after its arrival.

**Beware of Frost:** Treatment of Nursery Stock received during frosty weather: Place box or bales in a cool cellar, or some such place, and let thaw out gradually. Don't handle plants until frost is out. Don't be in a hurry to open, as stock can remain in this condition for several days, if packages are covered to exclude the air. Stock can then be unpacked for planting, or be stored under proper conditions. There will be no damage to stock if handled properly when received.

**Transportation:** All orders, unless otherwise specified, travel at the cost and risk of the purchaser. Where shipment of small sizes by parcel post is desired, add 20 per cent to your order to cover postage. Any excess funds will be returned to you. Due to war conditions, all freight, especially less carload lots, is moving slower than formerly. Motor freight to some points is satisfactory where numerous transfers are not necessary. However, we strongly recommend express shipment in most instances. We are now allowed second-class express rate on nursery stock, which gives you both quick and economical transportation. Please specify method of shipment; otherwise, we will use our best judgment.



**Terms:** Our terms are cash with order, unless C.O.D. shipment is desired, in which case send one-fourth of purchase price with order. Remit by money order, check or draft, or registered letter if cash is sent. Prices quoted are f.o.b. McMinnville and are subject to change without notice.

**Special Discount:** On orders amounting to \$50.00 or more, we allow a straight discount of 5 per cent, cash with order. This special concession makes it desirable to send "Club Orders"; two or three or several persons sending their orders together to be included in one shipment. Please note that the ten, hundred, and other quantity rates are on that number of one variety, and not on an assortment of ten, hundred, etc. In other words, if you order less than ten of one variety, the "Each" rate is due to apply, etc.

Any order sent us will have our prompt and careful attention, and select quality stock will be furnished at all times. Certificate of inspection will be sent with each shipment. We earnestly request you to send your order early for choice of selection of varieties and best attention.

We have some varieties that are not shown in this list, and we solicit your orders for your full needs. If we do not have the particular variety wanted, we will send best substitute, unless you specify that we not do this. This has reference to small assorted orders. On commercial orders WE DO NOT SUBSTITUTE.

**Please Read These Instructions Carefully Before Ordering**



### **LOOK TO THE FUTURE IN FRUIT GROWING**

Fruit growers must plant now to meet future consumer demand. Science, quick freezing, dehydration, and other forms of processed fruits promise a new era for the fruit producer. The war has stepped up the production of every commodity both for the armed forces and civilian use, and has also caused the manufacturer, scientist, dietitian, and food processor to find new means whereby raw materials may be preserved and held for future use. The great strides made in this field have opened a new world for the fruit grower and given him a new outlet for surpluses at a profit which in the past were a total loss.

With the thought of declining production on one hand and the increased consumption on the other, the fruit grower must prepare now to protect his production and income in the years ahead. War has brought many changes in the American diet and taught our people many new ways to preserve health through eating all types of fruits and vegetables, which they will not wish to forego in peacetime, and certainly the canner and processor is not going to allow the consumer to forget what he has learned.

To the improvements in quick freeze, dehydration, extraction of necessary principles from fruit, we add new types of packaging designed to keep in perfect condition until consumed every type of food.

Thus we see the housewife of the future depending on the orchardist, vegetable grower, and the live-stock and dairyman to bring to his table the finest food produced regardless of season.

The grower should first determine his market outlet for the type of fruit he will grow and the opportunity for disposal of any surplus. Then he should be sure his location and soil will support the type of fruit he wishes to grow without excessive production cost. And last, but not least, buy the best nursery stock available. Cheap nursery stock is expensive even if given to you. Select your nurseryman with the same care you do your banker or doctor.

### APPLES

No other fruit is so dependable and generally desirable as the Apple. They will thrive in almost any well drained soil. Its period of ripening extends from early July until frost, and then they can be kept through the entire winter. For family use there is no fruit so indispensable. With moderate care they will pay a handsome return on your efforts and investment. We have kept our list of varieties up to date, and you can plant any of them with confidence.

#### Apple—Whips

	Each	Per 10	Per 100	Per 1000
2 to 3 feet	\$ .40	\$3.50	\$30.00	\$250.00
3 to 4 feet	.50	4.50	40.00	350.00
4 to 5 feet	.60	5.50	50.00	450.00

#### Apples—2 Yr. Branched

3 to 4 feet	.65	6.00	55.00	500.00
4 to 5 feet	.75	7.00	65.00	600.00
5 to 6 feet	.90	8.50	80.00	750.00

#### Varieties:

### EARLY OR SUMMER APPLES

**Yellow Transparent.** Earliest variety of apple. Fruits pale yellow, slightly acid, and markets in good condition. Trees bear young.

**Maiden Blush.** A late summer apple. Possibly the best commercial variety for cooking in its season.

**Early Harvest.** One of the earliest summer apples. Trees very vigorous and productive. Fruit tender with yellow skin. Good for eating and cooking.

**Red June.** An early summer apple, producing medium sized red fruit of distinctive flavor. No home orchard is complete without it.

**Hackworth.** A southern variety of distinctive merit. Should have a place in all family orchards in Dixie.

**All Red Duchess.** A late summer variety which thrives anywhere, developed from sport limb of regular Duchess. A heavy bearer of well flavored fruit. An all-purpose apple.

**Early McIntosh.** Follows Transparent in ripening; flesh white, tender, juicy, and fine flavor. Has same prominent qualities as the Winter McIntosh.



**Milton.** A very handsome new apple of the McIntosh type. Fruit a beautiful pinkish red, with tender, crisp, white flesh of excellent flavor. Trees hardy and vigorous.

**Red Astrachan.** Medium size, yellow with dark red patches; flesh decidedly acid and juicy; excellent for cooking, and very satisfactory for home planting. Trees hardy and vigorous.

**Early Red Bird.** Among the earliest to ripen, and a fine apple. Flesh is white, juicy, and slightly tart, tender and crisp. A very good one and, like Transparent, bears heavily on young trees.

**Old-Fashioned Horse.** Large, pale greenish yellow, shaded with red; tender, juicy, subacid. Tree vigorous and very hardy; upright grower; bears early and abundantly. An old favorite, famous for cider making, pies, drying, and all culinary purposes. When allowed to mellow to deepest gold, it is a delicious eating apple. Ripens about August 1st.

### LATE FALL APPLES

**Grimes Golden.** A favorite yellow apple. Fruit medium, uniform, yellow. Flesh tender and crisp, slightly acid. Stores well.

**Kinnard's Choice.** Originated in Tennessee. One of the best all purpose red apples. Similar in color to Winesap, but ripens earlier. Appreciated wherever known.

**Red Northern Spy.** The old northern favorite, dressed up in a new bright red-all-over gown! Finer flavor, but same wonderful keeping quality. Favored for drying, baking, storage, pies, etc.

**Northwestern Greening.** A fall apple in the South, but ripening later in northern localities where it is hardy and very productive. Fruit pale, waxy yellow, sometimes blushed.

**Tolman Sweet.** The leading sweet apple. Trees hardy, long-lived, and bear early. Fruit pale yellow, sometimes blushed. Flesh firm, white, and sweet.

**Wealthy.** Another fall apple in the South, which is hardy in the North. Fruit of good appearance, shaded to dark red. Flesh tender and subacid. Especially adapted to sandy soils.

**Yellow Delicious.** An all-purpose apple with almost every good quality. Trees vigorous and productive. Fruit uniform in size, coloring to a good yellow color. Flavor very distinctive and pleasing.

**Dark Red Delicious.** The same description as for the Red Delicious applies to this very popular new variety; and in addition to having all the desirable qualities of the original Delicious, it also has the advantage of an exquisite deep red color covering the entire fruit. One of the best additions to the list of apple varieties since the original Delicious.

**Anoka.** Called the "Old Folks Apple" because it comes into bearing at an early age, often having some fruit the second year after planting. It is very resistant to cold temperatures. Bears heavily. Fruit is of good size, colored red with yellow streaks, ripens in midsummer, and is fine for cooking. The tree does not grow so large as some other varieties, and is therefore good for planting in the yard if other space is not available.

**York Imperial.** A late fall or early winter variety planted largely in the Virginias and adjoining states. Fruits keep and ship exceptionally well.

**Medina.** A large and attractive apple, resembling the Delicious, having a golden ground color overlaid with a beautiful solid red. Recommended as an apple to prolong the Delicious season. Our supply is limited.

### WINTER APPLES

**Baldwin.** Probably the most extensively grown of any winter apple in the Eastern states. Fruit uniform in shape, yellow blushed, and mottled with red. Flesh crisp, tender, and juicy.

**Cortland.** Very similar to McIntosh, but if possible an improvement. Fruit bright deep red in color. Flesh snow white, firm, crisp, and tender.

**All Red Jonathan.** Everybody places this variety among the best in both appearance and quality. Medium sized fruits with brilliant red skins. Flesh nearly white, crisp, and tender with a distinctly pleasant aroma.

**Mammoth Black Twig.** A seedling of Winesap, growing more vigorously. Bears large fruits of good quality.

**Red Rome Beauty.** An improved Rome Beauty, identical in vigor and production. Color of fruit much brighter and solid red. Produces much higher percentage of fancy apples and also superior in quality to the ordinary strain. Bears at early age and produces bumper crops. Tree is a vigorous, hardy grower.

**Winter Banana.** Trees very hardy, vigorous, and fruitful. Fruit clear, pale yellow, with a delicate blush. Flavor rich, mixture of sweet and sour.

**Yates.** Very popular in the South, especially in Georgia. A heavy bearer and good keeper. Fruit will often stay on trees until near Christmas if not picked.

**Haralson.** No matter how cold your winters are, you can have big, beautiful, dark-red-all-over apples now! Haralson thrives everywhere. Trees are thrifty growers and heavy producers. Fruit is crisp, juicy, flavorful, fragrant, and white. Winter storage and shipping kind.

**Gano.** (Black Ben.) A handsome large apple of perfect shape, smooth, glossy, deep red skin; flesh white, slightly tinged with yellow; firm, rather coarse, crisp mild subacid flavor. Excellent keeper, standing long shipments; usually packed in barrels.

**All Red McIntosh.** In addition to having all the desirable qualities of the original McIntosh, it has the advantage of deep red color covering the entire fruit. Flesh white, tender, juicy, subacid. Tree hardy, vigorous, and healthy; starts to bear young and heavily. It is a favorite for market and eating.

**Turley.** (Turley Winesap.) The Turley is gradually winning its way solely on its merit. The tree is vigorous and bears fruit early. Fruit is very red and inclined to be large. Season just ahead of Stayman's Winesap.

**Kendall.** A new McIntosh seedling, of about the same season, but keeps a little longer. The apples are large, trim, with whitish, fine-grained flesh, and handsomely covered with dark red. Ranks as one of the best all-purpose apples.

**Black Stayman.** Larger than the common Wine-sap, with rich, dark red fruit. Keeps well and can be used in every way. One of the best commercial varieties as well as an all-purpose apple for home use.

### CRAB APPLES

**Transcendent.** An early ripening variety ripening in August. Color yellow overspread with bright red. Flesh very crisp and tender.

**Dolga Crab.** Best of all crab apples. Bears young and very heavy. Beautiful enough for a lawn tree. Excellent for jelly. It is one of the finest and most beautiful crabs grown. Not subject to blight.

### PEARS

There is scarcely a section in the entire country where Pears will not produce abundantly if proper care is used in the selection of varieties. By all means Pears should be planted extensively for both market and home use.

You can have fresh Pears for six months or longer if the right sorts are selected, first fresh from the tree and then from those that have been stored in a cool place. Pears begin bearing in two to three years after planting, depending on variety and attention they get. They grow best on moist, rich lands, but are more subject to blight where growth is vigorous and heavy. So it is best to give them just average lands and not push them too fast. Where blight appears, cut out and burn it promptly, keeping saw or knife thoroughly disinfected with creosote, carbolic acid, or other disinfectant. Careful and thorough pruning will do much to lessen this disease.

#### Pear—Whips

	Each	Per 10	Per 100
2 to 3 feet	\$1.25	\$10.00	\$ 80.00
3 to 4 feet	1.50	12.50	90.00
4 to 5 feet	1.75	15.00	100.00

#### Pear—2-Yr. Branched

3 to 4 feet	2.00	17.50	110.00
4 to 5 feet	2.25	20.00	125.00
5 to 6 feet	2.50	22.50	150.00

#### Varieties:

**Bartlett.** Grown profitably in every pear growing section in America. Trees vigorous and bear young. Fruits large and long with clear yellow color when mature. Flesh fine grained and juicy.

**Pineapple Pear.** Resembles the Kieffer, with crisp, juicy, coarse flesh. Fine for cooking and canning. So far, it has proved to be blight proof. Ripens July and August.

**Garber.** An earlier pear than Kieffer. Hardy north and south. A very vigorous grower producing fruits suitable for culinary purposes.

**Kieffer.** Grown largely for culinary purposes. Grows to large size. Fruit long and heavy. Flesh coarse and not so sweet. Largely planted for canning.

**Douglas.** Wonderful fall pear. Golden yellow in color. Tree bears very young, and an excellent variety. One of the hardiest, most blight resistant, and productive pears now being grown. Suitable for home or market.

**Seckel.** Very vigorous and productive. Fruits reddish-brown, of medium size. One of the best all-purpose pears.



## PLUM AND NECTARINE

The Plum in large variety thrives over a wide range of soils and climates, and should be generally planted. No home orchard is complete without several trees of choice varieties to give fresh fruit for eating as well as an abundance for jams, jellies, preserves, etc., and there is always a market for choice Plums.

	Each	Per 10	Per 100
18 to 24 inches .....	\$ .75	\$6.50	\$55.00
2 to 3 feet .....	.90	8.00	70.00
3 to 5 feet .....	1.10	9.50	85.00

### Varieties:

**Abundance.** Early, large, color pinkish red, changing to darker red, with thin bloom. Yellow flesh. Very juicy, sweet, and tender, pleasantly aromatic. Hardy; very productive. Adaptable to a wide diversity of soils and climates.

**Burbank.** Early, about one week after Abundance. Large, cherry red with thin lilac bloom. Flesh amber yellow with rich, sugary flavor; high quality and very productive. A product of Burbank, the master plant breeder. Should be in every orchard.

**Red June.** Early, medium size, garnet-red color, thin bloom, flesh light yellow, somewhat meaty, sweet, aromatic. Trees are healthy, hardy, and productive. An early market plum.

**Shropshire.** Best known damson. Very vigorous, hardy, and productive, often overladen with fruit. Color blue-black. Flesh golden yellow. Good variety if you are planting one tree or one thousand trees.

**Gold.** A hybrid variety which is popular and profitable. Fruit almost transparent, golden yellow. A sure bearer and suited to a wide area. Exceedingly desirable as a market sort. Ripe in July.

**Nectarines.** "Fruit of the gods!" Lovely pink blooms in spring on small trees, and loads of delicious, sweet fruit in late summer! Smooth skin like plums; mellow, rich, juicy flesh like peaches. Very fragrant. A treat, whether eaten fresh or canned. Self-pollenizing. Hardy as peach trees.

## CHERRY

Not difficult to grow, but the trees are best adapted to well drained rich soil. The sour varieties grow more readily than the sweets, but you can have both if your location is good. Be sure to plant the trees as soon as they arrive—don't let them lie around. Press the dirt firmly around the roots; tramp it hard. Prune the same as apples or pears, but do not cut the central leaders.

	Each	Per 10	Per 100
2 to 3 feet .....	\$1.00	\$ 9.00	\$ 75.00
3 to 4 feet .....	1.10	10.00	90.00
4 to 5 feet .....	1.25	11.00	100.00

### Varieties:

**Black Tartarian (Sweet).** A widely planted sweet cherry. Adapts itself to many different soils and climates. Fruits ripen early. Purplish red flesh that is sweet and juicy.

**Early Richmond (Sour).** The leading early sour cherry. Trees vigorous everywhere planted. Fruits dark red. Flesh pale yellow, tender and melting.

**Montmorency (Sour).** The most popular sour cherry grown in America. It is surpassed by no other sour cherry in vigor and health. Fruit light to dark red. Flesh pale yellow tinged with red; very juicy.

**Governor Wood (Sweet).** A wonderful sweet cherry for home use. Trees bear early. Fruit large, yellowish-white, tinted with crimson. Flesh tender, sweet, and juicy.

## APRICOTS

### Fine for Canning

The Apricot is one of the most delightful luscious fruits grown when eaten fully ripe and fresh from the tree. It is remarkable that such a rich and beautiful, golden, sweet fruit is not planted more, especially since it ripens just after the early cherries and before the best early peaches. Apricots are best adapted for city gardens or where trees are protected by buildings. They are delicious fruits, and therefore a little extra care should be given to protect the flowers from late spring frosts. Trees when planted in orchard may be protected by timber or tall-growing fruit trees.

	Each	Per 10	Per 100
18 to 24 inches.....	\$ .75	\$6.50	\$55.00
2 to 3 feet.....	.90	8.00	70.00
3 to 5 feet.....	1.10	9.50	85.00

### Varieties:

**Early Golden.** An early ripening variety of medium size. Skin smooth, pale orange color. Flesh yellow. Juicy and sweet, with good flavor.

**Moorpark (Standard Freestone).** This is the big, juicy, full-flavored apricot demanded for canning and drying throughout the country. One of our finest dessert varieties. Moorpark fruit ripens to deep orange colors, both in flesh and skin. Perfectly freestone. Can be canned whole with skins retained if desired. Fuzzless. Wonderful quality. Trees grow a little larger than peach trees and are equally as hardy, thrifty, and prolific. Not a novelty but a PRACTICAL FRUIT.

**Royal.** Tree large and vigorous. Regular in bearing with large crops. Fruit large yellow tinged with red. Flesh firm and juicy. Stone free.

## QUINCE

For preserves and jelly there is nothing better. Its delightful flavor and aroma have been admired for years. Every home should have a Quince tree.

	Each	Per 10	Per 100
2 to 3 feet.....	\$1.00	\$ 9.00	\$ 75.00
3 to 4 feet.....	1.10	10.00	90.00
4 to 5 feet.....	1.25	11.00	100.00

### Varieties:

**Champion.** Tree vigorous and very productive. Fruit large. Flesh pale yellow, very firm, and juicy. A good standard variety.

**Orange.** An early ripening variety more adapted to the North. Color golden yellow. Flesh pale yellow, becoming dark red when cooked. Quality good.

## GRAPES

Other crops may fail, but you never lose all the Grapes—unless the boys get them. Grapes are a

sure crop, and vines need little attention except training, lots of sunshine, and plenty of plant food. By careful selection of varieties, fresh fruit may be had for several months during the year, and many delicious jams, jellies, marmalades, and juices may be preserved for winter consumption.

	Each	Per 10	Per 100
2-yr. vines .....	\$ .35	\$3.00	\$25.00

BLACK GRAPES

**Concord.** The best general purpose grape grown. Berry large; bunches shouldered and compact. Should be the "backbone" of your planting. Very fruitful every year. Fruit firm and juicy.

**Moore's Early.** An extra-early variety. Medium bunch; large black berry. Vine is hardy, very reliable, and does well wherever planted. Desirable for an early market.

**Worden.** A seedling of Concord. Better quality; ripens ten days earlier. Bunch and berry large; compact. Not quite so hardy or long-lived, but is needed in every collection.

**Fredonia.** A new very early black grape. Ripens shortly before Moore's Early. The bunches and berries are large with excellent flavor. It is an extra good shipper as it does not crack. Vines are vigorous and productive.

RED GRAPES

**Agawam.** Bunch large, shouldered; berry large reddish brown, tender, vinous, and of excellent flavor. Very vigorous and productive. Vine hardy and one of the best in its class. The most productive of all reds.

**Catawba.** Standard late red grape that has lost none of its popularity. Season and quality make it indispensable. Bunches medium, shouldered; berries large, deep coppery-red, becoming purple when ripe; flesh somewhat pulpy, juicy, sweet, aromatic, and rich.

**Delaware.** A well-known red grape. Bunch and berry small; compact. Flavor unsurpassed. Must be given good, rich soil. One of the highest quality grapes in cultivation. Extremely hardy. Keeps and ships well.

**Lutie.** Best extra early grape of its color, and good size. Very mild, subacid flavor. Planted largely for home use and eating while fresh.

WHITE GRAPES

**Niagara.** Occupies the same position among the white varieties as Concord among the black. Bunch and berries are large, greenish-white, changing to pale yellow when fully ripe. Skin thin but tough; quality much like the Concord.

**Portland.** Holds first place among grapes as an early green variety. Vine very vigorous, hardy, and healthy. Bunches and berries larger than any other green grape. Very fine quality.

SCUPPERNONG or MUSCADINE GRAPE

	Each	Per 10	Per 100
Two year .....	\$ .60	\$5.50	\$50.00

These are well known favorites in the South. They are usually trained on overhead trellises and need very little care after once started.



**Scuppernong (Muscadine).** Berries large; seldom more than 8 to 10 in a cluster; color brown; skin thick; flesh pulpy, flavor sweet and of a peculiar musky aroma. Vine is free from all diseases and insect depredations. Wonderfully prolific and a sure bearer.

**James Grape.** Berries large, blue-black, in clusters of from 6 to 10; skin thin; pulp tough, sweet, and juicy, but not dissolving; quality good. A showy fruit. Ripens after Scuppernong.

**Thomas Grape.** Fruit large, purple, thick skin, borne in clusters like Scuppernong. Fruit has peculiar tang which is delightful. A very desirable arbor grape, and an old favorite. These are usually spaced 20 to 25 feet apart each way, as are other of the muscadine group of grapes. Hardy and well adapted to soils.

### PEACH

No other fruit stands ahead of the Peach for general planting over a very large section of the country. While the trees prefer a well drained sandy loam, they will adapt themselves to almost any well drained location if given proper care. Wide range of varieties makes it possible to have fruit ripening over a long period of time. Varieties are listed in about the order in which they ripen, though some overlap and ripen about the same time.

	Each	Per 10	Per 100	Per 1000
6 to 12 inch.....	\$ .25	\$2.00	\$17.50	\$150.00
12 to 18 inch.....	.30	2.50	22.50	200.00
18 to 24 inch.....	.35	3.00	27.50	250.00
24 to 30 inch.....	.45	4.00	37.50	350.00
30 to 36 inch.....	.55	5.00	45.00	400.00
3 to 5 feet.....	.65	6.00	55.00	500.00

#### Varieties:

**Mayflower.** Ripens earlier than any other peach. Trees hardy and productive. Fruit medium, entirely covered with red. Ripens before June 1 in this section.

**Red Bird.** One of the best early peaches. Bright red color, with good flavor. Good commercial variety. Ripens in early June.

**Mikado.** Early yellow peach, ripening about one week after Mayflower. Should be interplanted with other varieties.

**Early Rose.** An early ripening variety, often called second early. White semifreestone peach. Good blush and excellent flavor for an early peach. Ripens mid-June.

**Carman.** A very conspicuous, white peach, doing equally as well north or south. Fruit medium-sized, popular shipping variety. Earlier than Belle of Georgia. Early July variety.

**Golden Jubilee.** An early, yellow freestone peach, ripening from three to four weeks before Elberta. Very highly praised wherever grown, both as a market and home variety.

**Rochester.** One of the hardiest varieties. Largely grown in the Eastern states, but has proven a good variety almost everywhere planted. Fruit long pointed. Flesh yellow, stained red near seed.

**Early Hiley.** Large, freestone peach; flesh white, with general appearance and qualities of regular Hiley Belle, except ripens about ten days earlier. Was developed from sport limb of regular Hiley in

southern Georgia. Prolific bearer and good shipper. Favorite and profitable for early market.

**South Haven.** A fine hardy peach of the Elberta type, though it ripens about two weeks ahead of Elberta. It is a freestone peach with yellow meat and highly colored skin. It ripens over a period of near two weeks, which makes it very fine for local marketing.

**Hale Haven.** Ripens about midway between Golden Jubilee and Elberta. Has the large size and round shape of the J. H. Hale, is a perfect freestone, and has a tough skin that makes it one of the best shipping varieties. Yellow fleshed and highly colored skin—these combined with its excellent shipping quality and larger size, make it one of the very best for commercial planting. The tree is an excellent grower.

**Hiley.** A variety similar to Belle of Georgia, but ripens at least two weeks earlier. White with red cheek. White, juicy flesh. Good shipper.

**Champion.** The standard white freestone. Trees very productive. Fruit very attractive, as well as good flavor. Late July.

**Early Elberta.** Ripens about ten days before Elberta. More roundish and slightly sweeter.

**Old-Fashioned Red Indian.** An old favorite and needs no introduction. Very highly colored, red as blood to the seed; very firm and of excellent quality. Clingstone; especially fine for pickling.

**Belle of Georgia.** Fast growing, vigorous tree, bearing large, creamy-white fruits, with crimson cheek. Flesh white, tinted red at pit. Semicling. Midseason July.

**Elberta.** The standard yellow peach. Grows in every peach growing state. Gives good crops of well-formed fruit.

**J. H. Hale.** A large, deep red peach with yellow flesh. Has practically no fuzz, and the strong flavor characteristic of Elberta is absent. Ripens in mid-July.

**Augbert.** A freestone peach similar to Elberta, but later, and in many respects superior. Tree vigorous and productive; very valuable. Ripens during August. At the head of the list for commercial planting and for home orchards for canning purposes.

**Shippers Late Red.** A splendid peach to follow Elberta, which it follows about one week. The fruit is large, colored red, with yellow flesh and freestone. Fruit is firm and ships well. A desirable variety.

**Gage Elberta.** This comparatively recent introduction came from an Illinois orchard from a bud sport of Elberta, and in its years of trial has proven highly disease resistant. Tree has many characteristics of the Elberta, but is more spreading in habit of growth. Blooms come later than those of Elberta, and fruit ripens about 5 days after Elberta.

**Heath Cling.** One of the old favorites. A late, white clingstone peach that keeps well when removed from tree. Excellent for cooking whole as stone gives no bad flavor. Ripens in September.

## BERRIES

Practically all varieties are easy to grow and will thrive in many localities, though they prefer rich,

fertile, well-drained soils. If soil is poor, it should be fertilized if best results are to be had. The vines bear the second year after planting and yield the most delicious of fruits.

**BLACK RASPBERRY** Each Per 10 Per 100 Per 1000  
\$ .10 \$ .90 \$ 8.00 \$ 75.00

**Cumberland.** Still the leading late Blackcap. Establishes the quality standard by which the others are judged. Starts to ripen midseason and bears through the late season, producing a tremendously profitable crop. Desirable for home use or market, to eat fresh, canned, in juice, jelly, or jam. Berries are large, round, black, firm, and "oozing" with flavor. Plants self-supporting and thrifty growers. Set them 3½ by 7 feet apart. Nonsuckering.

**RED RASPBERRY.** Each Per 10 Per 100 Per 1000  
\$ .15 \$1.25 \$11.00 \$100.00

**Latham.** Long recognized as the leading Red Raspberry in every part of the country! Latham produces immense berries. Every berry is round, plump, juicy, free from seediness, and full of delicious flavor. Often measure ¾ inch across! Deep glowing red in color; they do not fade. Retain their rich color and flavor when canned. Marvelous keeping quality makes Latham a favored shipping and freezing variety. Starts ripening midseason and continues a long time. Offer bears a "surprise" crop in the fall on the new growth. Set Latham plants 3 by 6 feet apart. Grow in hills or in the hedgerow system.

**St. Regis Everbearing (Red Ranere).** The old standby of everbearing raspberries. The outstanding everbearing variety. It gives a crop of fruit all summer and autumn, fruiting on the old canes in generous quantities until late in August. By this time berries begin to ripen on the young canes and continue until late in autumn. Berries are a bright crimson, of large size, and surprising quality; sugary with raspberry flavor. Without an equal and the dependable everbearing raspberry.

**BLACKBERRY.** Each Per 10 Per 100 Per 1000  
\$ .10 \$ .90 \$ 8.00 \$ 75.00

**Eldorado.** The heavy yielding variety. The heavy producing quality of Eldorado has placed it first among blackberries. Every good quality possessed by other blackberries is emphasized in Eldorado. Its berries are of enormous size, shiny jet-black, sweet, pleasing flavor. It is valuable for both home and commercial planting. It is quite firm and ships well.

**DEWBERRY.** Each Per 10 Per 100 Per 1000  
\$ .10 \$ .90 \$ 8.00 \$ 75.00

**Lucretia Dewberry.** Long, mammoth black berries, recognized as the leading variety. Incomparably better in every way than any blackberry you have ever seen or tasted. Lucretia is a very early bearer, ripening from a week to ten days before even the earliest blackberries. Big, uniform size makes them topnotchers in price on any market. For real profits and for home and commercial growing, Lucretia is the only variety of importance.

#### Strawberries

	Per 100	Per 500	Per 1000
Single Crop .....	\$2.00	\$ 7.50	\$ 12.00
Everbearing .....	3.00	12.50	20.00



**Varieties—Single Crop:**

**Aroma.** A midseason variety that is very resistant to frost damage. Berries large, red clear through.

**Blakemore.** A good early berry that is fast replacing some of the early varieties. Fruit averages larger than other varieties and ships well.

**Klondike.** The standard shipping variety. Heavy bearer of firm red berries that ship in good condition.

**Everbearing Varieties—Progressive and Gem**

**Gem Everbearing Strawberry.** Everyone can eat Scarlet Gem Strawberries because they are so mild and sweet! Bright flame-red color makes them sell readily. Thrive on any good, well-drained soil, making wide fruiting rows. They are heavy bearers. Self-pollenizing.

**Progressive Everbearing.** A wonderful everbearing strawberry, as the spring-set plants not only produce a big crop of berries the same season, but the runner plants commence to bear fruit as soon as set, and in this way Progressive yields a crop of fruit the first year that is truly wonderful. The fruit of Progressive is of good size, smooth, of good color and appearance.

<b>BOYSENBERRY.</b>	Each	Per 10	Per 100
	\$ .35	\$2.50	\$20.00

The Boysenberry has the reputation of being the best berry ever grown. Immense berries of delicious flavor. Bushes very hardy and bear heavily. It has all the good points of the blackberry, loganberry, and raspberry, but is far more hardy and vigorous. Almost seedless, is firm, and a good shipping berry. Be sure to plant some of the new improved Boysenberry. 25 plants will be plenty for home use. 600 plants will set an acre, set 8 ft. by 8 ft.

<b>YOUNGBERRY.</b>	Each	Per 10	Per 100
	\$ .20	\$1.50	\$12.50

This wonderful new Youngberry is a cross between the Loganberry and the Dewberry. A heavy bearer, and the fruit is extra fine flavor. Delicious to eat fresh and cans well. Unsurpassed for home garden or for commercial planting. The plant is a rank grower and adapted to a wide range of soils. Plants should be given some winter protection north of Missouri.

**Mulberries**

While the fruit of the Mulberry is of no commercial value, the tree is planted largely for shade. Many people consider the edible types of Mulberry a most delectable and dainty dish. They are of much value for swine and poultry. The tree is of quick growth and is particularly suited to the South.

**Hicks.** Very prolific and in fruit for several weeks, often being known as "everbearing." Fruit large, black, and sweet. Ripens June and July.

**Downing.** Very large; black; sweet, rich, and excellent. Ripe in June and July.

	Each	Per 10	Per 100
3 to 4 feet.....	\$ .60	\$5.50	\$50.00
4 to 5 feet.....	.70	6.50	60.00

**PERSIMMON**

A distinct fruit of the South which succeeds in practically all sections where cotton is grown. The

tree has beautiful glossy foliage, which makes it very attractive, and the gorgeous colored fruits are both delicious and beautiful.

**Tane-Nashi Persimmon.** A vigorous grower and an early bearer. Bears much larger fruit than the American type. If the fruit is harvested before it is touched by frost, and house-ripened, the quality becomes greatly improved.

Each Per 10 Per 100

2 to 3 feet.....\$ .75 \$7.00

3 to 4 feet......85 8.00

**American Persimmon.** A native of the Southern states, but will ripen in the North. There is nothing more luscious than a well-ripened persimmon. It is satisfying to both man and beast. Plant a few for the opossums and children.

2 to 3 feet.....\$ .65 \$6.00

3 to 4 feet......75 7.00

**Rhubard (Pie Plant).** Rhubarb, with its flavor of the springtime, is a valuable aid to the action of the gastric juices, adds novelty to the bill of fare, has the good points of a fruit, and combines deliciously as a dessert or conserve.

**Victoria.** One of the best; excellent quality; very early, with long stem. Plants vigorous and dependable.

Two year .....\$ .20 \$1.50 \$12.50

**Asparagus.** Asparagus is considered one of the most healthful vegetables—a regular spring tonic, so to speak. Everyone should have it fresh from their own garden. It is adaptable to nearly any soil, but grows best in rich sandy loam.

**Washington.** This is the best known variety. It is a strong grower, producing stocks of large size, fine quality, and tender. The fact that it is rust-resistant makes it the ideal asparagus for all.

Strong Two-Year Plants.....\$ .15 \$1.25 \$10.00

## NUT TREES

### For Shade and Profit

Nut trees make good shade trees and yield wholesome, delicious food. Everybody likes, wants, and plants shade trees. Usually oaks, maples, and the like are used and are excellent for the purpose, but they provide nothing but leaves. More and more people are sensing the wisdom of planting nut trees, which yield both pleasure and profit.

**PECAN.** Every home in the South, whether on a city lot or in the country, should have a few pecan trees planted around it. They provide excellent shade and will add beauty to any planting. With practically no care, pecan trees will grow and thrive around the home, and in addition to their beauty will produce bountiful crops of nuts. Insure the very best results by using the best pecan trees. Even though they may cost you a few cents more per tree, they will prove their additional worth when they come into bearing. Plant our trees and you will plant the best.

**Stuart.** An upright, vigorous grower; very prolific; nuts large, kernel plump and of fine flavor. An especially good keeper and one of the most satisfactory varieties for general planting.

**Schley.** Tree a good grower; nuts medium to large, thin shell, plump full kernel. One of the best improved varieties.

**Success.** Nuts large to very large; shell of medium thickness; kernel of plump, rich, and good quality. One of the most widely planted varieties.

	Each	Per 10	Per 100
2 to 3 feet.....	\$1.50	\$14.00	\$135.00
3 to 4 feet.....	1.65	15.50	150.00
4 to 5 feet.....	1.90	18.00	175.00
5 to 6 feet.....	2.25	21.00	200.00

**WALNUT.** Culture of these trees is attracting much attention at this time. The Black Walnut is native to every section of the United States, and it has been said of this tree that it combines timber and nut value, beauty and shade. The English Walnut is being introduced more and more and promises to become a most profitable crop.

**Black Walnut.** One of our most majestic and beautiful trees; practically free from disease and insects; suited to all sections for both nuts and shade.

	Each	Per 10	Per 100
2 to 3 feet.....	\$ .40	\$3.50	\$30.00
3 to 4 feet.....	.50	4.50	40.00
4 to 5 feet.....	.70	6.50	60.00

**White Walnut, or Butternut.** This native tree is perhaps the most desirable of the nut-bearing trees. It is rapid in growth, quickly making a round-headed tree. (Prices same as on Japanese Walnut below.)

**Japanese Walnut.** Tree is very handsome and has large spreading top; useful as well as ornamental; begins to bear at age of three years; shell moderately thick; kernel very sweet.

2 to 3 feet.....	\$ .90	\$8.00	\$75.00
3 to 4 feet.....	1.00	9.50	90.00

**Thomas Walnut (Black).** One of the largest of the improved varieties and of best quality. Nut of good cracking quality with light colored meat. Tree a wonderful grower.

2 to 3 feet.....	\$1.75	\$15.00
3 to 4 feet.....	2.00	17.50

**English Walnut.** Bears large nuts of uniform size and with flattened ends; kernel light colored and of good quality; tree hardy and abundant bearer.

2 to 3 feet.....	\$1.75	\$15.00
3 to 4 feet.....	2.00	17.50

**Chinese Chestnut.** Blight-resistant chestnut. Ultimate height 20 to 25 feet. Due to the blight, our native chestnut is practically extinct, and this tree will take its place. It fruits early and prolifically; nuts are larger than native variety, and the quality is equally good. Take our advice and plant some of these trees.

2 to 3 feet.....	\$1.75	\$15.00
3 to 4 feet.....	2.00	17.50

**Hickory Nuts.** Very valuable for market in fruits, and also the lumber is much in demand for manufacturing a number of articles.

18 to 24 inch.....	\$ .70	\$ 6.50	\$ 60.00
2 to 3 feet.....	.85	8.00	75.00
3 to 4 feet.....	2.00	17.50	150.00

**Hazelnut.** This is a valuable shrub with edible nuts; decorative as well as useful.

2 to 3 feet.....	\$ .60	\$ 5.50	\$ 50.00
3 to 4 feet.....	.70	6.50	60.00



## FIGS

The Fig is considered to be more or less a fruit of the coast country, but it thrives and produces abundant crops over most of the cotton section; and while the tops will sometimes be killed back in colder sections, if this deadwood is pruned away the plant will make new growth which will fruit the first season.

	Each	Per 10
18 to 24 inch.....	\$ .60	\$5.00
2 to 3 feet.....	.70	6.00

## Varieties:

**Brown Turkey.** Medium size; purplish-brown; sweet and good. Very prolific. Has habit of bearing on new wood, even fruiting in the nursery row.

**Everbearing.** Fruit medium to large, brownish-yellow, shaded bronze; flesh white with pink center, sweet and delicious. The trees begin to bear when quite small and usually have fruit all season. Plants ordinarily bear in nursery row on first season's wood. We consider this one of the most desirable of all figs.

## FLOWERING SHRUBS

From the first warm morning in spring, when the Forsythia shows its flowers of gold to the frosty fall days when the Hydrangea turns to red and brown, you can enjoy the beauties of flowering shrubs. Color, fragrance, hardiness, and quick growth unite to make these plants indispensable in every well-planned landscape, whether small or large. By careful study, one may have beauty of foliage, flowers, or fruit practically the year 'round, lending an interest to one's planting which cannot be gained by any other class of plants.

**ALMOND (Double Pink Flowering).** One of the earliest plants to bloom; rather dwarf growing and very beautiful. Flowers are soft pink.

	Each	Per 10
12 to 18 inch.....	\$ .50	\$ 4.00
18 to 24 inch.....	.60	5.00

**ALTHEA (Rose of Sharon).** An upright growing shrub which is well known and is one of the most satisfactory. The flowers vary from single to double, and the plant withstands unfavorable conditions well.

**Anemoneflora**—Bright Rose.

**Ardens**—Clear Violet.

**Boule de Feu**—Purplish Red.

**Jeanne d'Arc**—Pure White.

18 to 24 inch.....	\$ .30	\$ 2.50
2 to 3 feet.....	.40	3.50
3 to 4 feet.....	.50	4.50

**ARONIA (Chokeberry).** Dark green foliage in summer, turning to vivid red in the fall. Hardy.

12 to 18 inch.....	\$ .40	\$ 3.50
18 to 24 inch.....	.50	4.50

**BARBERRY THUNBERGI (Japanese Barberry).** A low growing, hardy shrub with small leaves which turn bronzy-yellow and red in the fall. The flowers are pale yellow, followed by scarlet fruits.

12 to 18 inch.....	\$ .40	\$ 3.00
18 to 24 inch.....	.50	4.00

**RED LEAF BARBERRY.** A variety of great demand; similar to Japanese Barberry in growth. Will not color up to advantage except in sun; hardy.

	Each	Per 10
12 to 18 inch.....	\$ .45	\$ 3.50
18 to 24 inch .....	.55	4.50

**BUDDLEIA (Butterfly Bush).** A thrifty growing plant, bearing long, slender, arching spikes of blue-lilac flowers from June until frost. Very ornamental and fragrant.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.50	4.50

**CALLICARPA (Beautyberry).** A native large leaved shrub, having in the fall conspicuous violet colored fruits in clusters.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.50	4.50

**CALYCANTHUS (Sweet Shrub).** Plant found in all old-fashioned gardens. It has fragrant, dark reddish brown flowers. Grows well in shady location. Hardy.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.50	4.50

**CRAPE MYRTLE.** The most showy and doubtless one of the most satisfactory plants for the entire South. Withstands drouth well and blooms all summer. The soft, fluffy flowers of crinkled, crape petals are borne in immense panicles. The plant may be trained to tree form or allowed to grow in bush form. Hardy south of Ohio River.

**Pink**—Flowers bright clear pink of La France rose.

**Purple**—Flowers soft lavender-purple.

**Red**—A deep crimson in color, exceedingly bright and showy.

**White**—Flowers white with soft tinge of pink.

18 to 24 inch.....	\$ .45	\$ 3.50
2 to 3 feet.....	.55	4.50

**CYDONIA JAPONICA (Japanese Quince).** The old-fashioned favorite with scarlet flowers in early May, followed by quincelike fruit; plant is sometimes called Burning Bush. Hardy.

18 to 24 inch.....	\$ .55	\$ 4.50
2 to 3 feet.....	.65	5.50

**DEUTZIA (Pride of Rochester.)** Showy, late spring blooming shrubs of varying growth and very free flowering. Valuable for all sections.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**FORSYTHIA or GOLDEN BELL.** Medium growing shrubs which are among the most showy of spring bloomers. Erect, spreading branches, broad dark green leaves, golden yellow flowers in April. Hardy.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**HYDRANGEA A. G. (Hills of Snow).** Immense panicles of pure white flowers; very showy in August, lasting several weeks.

18 to 24 inch.....	\$ .45	\$ 3.50
2 to 3 feet.....	.55	4.50

**HYDRANGEA P. G. (Pee Gee).** Individual flowers of large size in June and July; creamy white flowers turning to pink in the late summer. This is considered one of the best shrubs for lawn planting.

	Each	Per 10
18 to 24 inch.....	\$ .45	\$ 3.50
2 to 3 feet.....	.55	4.50

**HYDRANGEA QUERCIFOLIA (Oakleaf Hydrangea).** Flowers creamy white, large oaklike leaves with a dark green silver beneath, turning to brilliant colors in the fall. Hardy.

18 to 24 inch.....	\$ .45	\$ 3.50
2 to 3 feet.....	.55	4.50

**LINDERA BENZOIN (Spice Bush).** Small bright yellow flowers in March and April. In autumn, gorgeous yellow foliage with red berries which attract birds. Hardy.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**LILAC (Persian).** Small leaves; flowers pale lilac and borne in loose panicles. A very free bloomer in April and May. Hardy.

18 to 24 inch.....	\$ .45	\$ 3.50
2 to 3 feet.....	.55	4.50

**LILAC (French Hybrids).** Named Varieties.

**Alphonse Lavallee**—Double Purple.

**Charles Joly**—Double Red.

**Marie LeGraye**—Single White.

Lilacs have long been great favorites everywhere. Their free-flowering habit, their easy culture, and great range of color make them easily adaptable to almost any situation.

12 to 18 inch.....	\$ .45	\$ 3.50
18 to 24 inch.....	.55	4.50

**LONICERA FRAGRANTISSIMA (Fragrant Honey-suckle).** Spreading grower with drooping branches. Has fragrance of old-fashioned honey-suckle vine. Hardy.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**LONICERA MORROWI (Morrow Honeysuckle).** A Japanese variety with rather small, creamy white flowers, followed by brilliant red fruit. Not so tall as other types.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**LONICERA TARTARICA ROSEA (Pink Honey-suckle).** Pink trumpet-shaped flowers followed by attractive red berries. An upright grower. Very fragrant.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**MOCK ORANGE, Sweet (Philadelphus Coronarius).** The old-time sweet mock orange. The long branches are covered with a profusion of single, pure white flowers with centers of golden yellow stamens. Exceedingly fragrant.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00



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**RHUS AROMATICA (Fragrant Sumac).** A native low spreading shrub with yellow flowers and scarlet fruits. The foliage has sweet, aromatic fragrance and takes on deep, rich tones in autumn.

	Each	Per 10
18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**RHUS COPALLINA (Shining Sumac).** Glossy green foliage which turns brilliant red and bronze in the fall; scarlet berries.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**RHUS GLABRA (Smooth Sumac).** A splendid shrub for mass planting; rather dwarf; foliage shining green, coloring crimson in fall; red fruits.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**SPIREA ANTHONY WATERER.** Of dwarf, bushy spreading growth. Flowers in corycombs of bright rose. Sufficiently dwarf to be used in front of foundation plantings or in borders. Does best in partial shade.

12 to 15 inch.....	\$ .45	\$ 4.00
15 to 18 inch.....	.50	4.50

**SPIREA THUNBERGI.** A graceful bush with innumerable small white flowers in April and May and tiny fernlike leaves.

18 to 24 inch.....	\$ .45	\$ 4.00
2 to 3 feet.....	.50	4.50

**SPIREA VAN HOUTTEI.** A strong hardy flower of graceful drooping habit, with wealth of white flowers in round clusters covering the plant early in spring. Foliage deeply cut and attractive. Hardy.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**SNOWBERRY (White).** A dwarf growing shrub with graceful drooping branches. In late fall and winter the plant is attractive with its numerous white berries formed along the branches.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**TAMARIX (African).** A straggly spreading grower with dark green foliage. Blooms early in spring before foliage appears, and the delicate blossoms completely cover the plant, making a veritable cloud of pink.

18 to 24 inch.....	\$ .45	\$ 4.00
2 to 3 feet.....	.50	4.50

**VIBURNUM (Common Snowball).** Larger globular clusters of white flowers in early April. An old favorite. From Asia.

12 to 18 inch.....	\$ .55	\$ 5.00
18 to 24 inch.....	.60	5.50

**VIBURNUM PLICATUM (Japanese Snowball).** A beautiful variety of upright, bushy growth; produces heads of white flowers in great profusion. Far superior to the old Snowball.

12 to 18 inch.....	\$ .55	\$ 5.00
18 to 24 inch.....	.60	5.50

**WEIGELIA ROSEA.** The best known and most widely used of the Weigelias. Flowers medium, varying from delicate pink to deep rose. Blooms early spring, and trumpet-shaped flowers are very profuse and showy.

	Each	Per 10
18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

**WEIGELIA EVA RATHKE.** The best of the red varieties, with flowers a bright clear crimson, borne in great profusion; growth more sprawling than other types, more delicate and not so rank in growth.

18 to 24 inch.....	\$ .55	\$ 5.00
2 to 3 feet.....	.60	5.50

**WEIGELIA HENDERSONIA.** Medium grower with rose-pink flowers borne in profusion in May. A useful shrub for specimen planting or grouping with other shrubs.

18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.45	4.00

### FLOWERING TREES

Every yard should have a few of these flowering trees; almost all of these are beneficial for the shade as well as for the flowers. Try a few of them and be convinced.

**CORNUS FLORIDA (White Flowering Dogwoods).**

A spreading grower with beautiful white flowers of four petals, the outer edges of petals being crimped. Flowers often tinged greenish-white and pink.

2 to 3 feet.....	\$ .75	\$ 6.00
3 to 4 feet.....	1.00	8.50
4 to 5 feet.....	1.50	12.50

**PINK FLOWERING DOGWOOD.** Resembles the white flowering except for the beautiful pink blooms. Plants thrive best in moist soils and are particularly suited to group or massed plantings.

2 to 3 feet.....	\$1.50	\$12.50
3 to 4 feet.....	2.00	17.50
4 to 5 feet.....	2.75	25.00

**REDBUD, American (Cercis canadensis).** Large shrub or small tree with its branches completely covered with rosy-purple flowers in early spring before leaves appear. Very effective and beautiful in group planting.

4 to 5 feet.....	\$ .75	\$ 6.00
5 to 6 feet.....	.90	7.50
6 to 8 feet.....	1.05	9.00

**FLOWERING CRAB APPLE—Tree Form.**

**Eleyi—Red.**

**Floribunda—White.**

**Floribunda atropurpurea—Purple.**

**Hopa—Rose.**

Flowering Crabs are among the most lovely of spring-flowering trees. Most varieties are abundantly set with showy small apples of a brilliant hue, which carry their value beyond the blooming period into the late summer and autumn. Highly ornamental and valuable in almost any planting.

2 to 3 feet.....	\$ .70	\$ 6.00
3 to 4 feet.....	.80	7.00

**DOUBLE FLOWERING PEACH.** A tree similar to ordinary peach except it is more dwarf growing and the flowers are very double, much larger, resembling small roses. Suitable for specimen or large group planting.

**Double Pink**—Flowers clear pink. Not so free flowering as the white or red.

**Double Red**—Most showy of all; flowers very bright and numerous.

**Double White**—Very free flowering; pure white.

	Each	Per 10
18 to 24 inch.....	\$ .40	\$ 3.50
2 to 3 feet.....	.50	4.50

**MIMOSA TREE (Silktree).** Fernlike foliage with fragrant pink blossoms in summer. The foliage forms a densely rounded head, almost umbrella-like.

2 to 3 feet.....	\$1.25	\$10.00
3 to 4 feet.....	1.50	12.50

**TULIP TREE (Liriodendron Poplar).** A tall, pyramidal trunk which rises to a great height and is clothed with a splendid foliage of large, glossy leaves. Large, tuliplike flowers are borne in the spring and are a greenish yellow and orange in color. One of the most distinguished tall trees.

4 to 5 feet.....	\$1.00	\$ 9.00
5 to 6 feet.....	1.50	12.50
6 to 8 feet.....	2.00	15.00

**KENTUCKY COFFEE TREE.** A very ornamental tree of upright and rapid growth, with rough bark and coarse branches; foliage bluish-green; flowers white, followed by long pods which hang on the tree all winter.

18 to 24 inch.....	\$ .50	\$ 3.50
2 to 3 feet.....	.75	5.00
3 to 4 feet.....	1.00	7.50

**AMERICAN LINDEN (Tilia Americana).** A large erect and rather formal tree, with a dome-shaped head. The leaves are dark green and light underneath, turning to yellow in the fall. Flowers are cream colored and inconspicuous but very sweet. The Linden is popular for street planting and for ornamental shade.

4 to 5 feet.....	\$1.00	\$ 7.50
5 to 6 feet.....	1.50	10.00
6 to 8 feet.....	2.00	15.00

**MAGNOLIA MACROPHYLLA.** Rapid growing tree with unusually large leaves from 12 to 15 inches long; white cup-shaped flowers; fragrant.

2 to 3 feet.....	\$1.00	\$ 7.50
3 to 4 feet.....	1.50	10.00

**MAGNOLIA TRIPETALA.** Rarely grows taller than 30 feet. Immense leaves in clusters around the large white flowers; rose-colored fruit cones.

2 to 3 feet.....	\$1.00	\$ 7.50
3 to 4 feet.....	1.50	10.00

### HEDGE PLANTS

The friendly way to fence. A thrifty, green hedge gives more character and beauty to home grounds than any fence yet devised. The first cost is less than that of a fence; trimming costs less than painting; if permitted to grow tall, it shuts out unsightly



views, and is decorative all the year. A yard enclosed with a beautiful hedge gives one indoor privacy with outdoor benefits. The different hedge plants here listed are adapted to a variety of uses.

**ABELIA GRANDIFLORA (Evergreen).** Few shrubs are of greater value for planting than the Abelia, not the least of which is for hedging, as it stands shearing well and makes a very compact hedge. Pinkish blossoms produced all summer. Hardy as far north as Philadelphia.

	Per 10	Per 25	Per 100
6 to 12 inch.....	\$3.00	\$ 6.25	\$20.00
12 to 18 inch.....	3.50	7.50	25.00

**AMUR RIVER PRIVET (South).** This plant to the South is far superior to any other privet that can be used. It retains its leaves in the South throughout the winter. You should certainly have some of these plants, especially if you are below the Mason and Dixon's line.

12 to 18 inch.....	\$ .70	\$ 1.50	\$ 5.00
18 to 24 inch.....	.90	2.00	6.00
2 to 3 feet .....	1.25	2.50	7.50

**AMUR RIVER PRIVET (North).** This is probably the most hardy of all the Privet. It is erect in habit. The leaves are dark, lustrous green, and remain on until late in the winter, which makes these plants very desirable for hedging.

12 to 18 inch.....	\$1.25	\$ 2.00	\$ 6.00
18 to 24 inch .....	1.50	2.50	8.00
2 to 3 feet.....	1.75	3.00	10.00

**CALIFORNIA PRIVET.** A large, vigorous shrub of upright habit. Leaves dark green and glossy. This is often used as an individual plant, as well as for hedge. Semi-evergreen. When planting, cut away most of the top to get a bushy hedge.

12 to 18 inch.....	\$ .70	\$ 1.50	\$ 5.00
18 to 24 inch.....	.90	2.00	6.00
2 to 3 feet .....	1.25	2.50	7.50

**IBOTA PRIVET.** This comparatively new Privet has proved hardy under the severe tests of the past few years. It is more or less spreading in habit and has a wealth of dark green lustrous leaves persisting until the advent of cold weather. Valuable for mass planting, for specimen plants, or for hedging.

12 to 18 inch.....	\$1.25	\$ 2.00	\$ 6.00
18 to 24 inch.....	1.50	2.50	8.00
2 to 3 feet.....	1.75	3.00	10.00

**JAPANESE BARBERRY (Berberis thunbergi).**

Each year sees an increased use of Japanese Barberry as a hedge plant. It is graceful, ornamental, serviceable, and hardy—four points that place it at the top of the list. The foliage unfolds in early spring, followed by yellow flowers, and later by red berries that remain all winter. In autumn the whole plant assumes a red tone. The drooping branches are thickly set with small spines that will turn cats or dogs. Japanese Barberry is excellent for foundation planting or for massing in corners. It thrives in bright sun and does well in shade.

9 to 12 inch.....	\$1.25	\$ 2.50	\$ 6.00
12 to 15 inch.....	1.75	3.50	9.00

**REDLEAF BARBERRY** (*Berberis thunbergii atropurpurea*). Introduced several years ago, this new plant has become immensely popular. It resembles the Japanese Barberry in growth, but color is brilliant red in spring. The color holds all summer in sun, but in shady places it becomes a beautiful bronzy green. Its winter charm is enhanced by red berries that remain until spring. Few shrubs attract so much attention or add so much color to a dull border. Useful as a hedge, giving both protection and color.

	Per 10	Per 25	Per 100
6 to 9 inch.....	\$1.75	\$ 3.50	\$10.00
9 to 12 inch.....	2.25	4.00	12.50

**BOXWOOD** (*Buxus sempervirens*). As a hedge it gives character to every place. It may be clipped or trained, or allowed to grow naturally. Should be planted in good soil; cultivate lightly and do not disturb the roots.

6 to 9 inch.....	\$5.00	\$11.00	\$40.00
9 to 12 inch.....	7.50	16.50	65.00

**SPIREA VAN HOUTTEI**. This is undoubtedly the most charming and beautiful of all the Spireas, having pure white flowers in clusters with drooping branches. Foliage is rich green. Plants remarkably hardy. An indispensable ornament for lawn or hedge, and probably the most widely planted shrub in cultivation.

12 to 18 inch.....	\$2.50	\$ 4.50	\$12.50
18 to 24 inch.....	3.00	5.50	15.00

**LOMBARDY POPLAR**. A tall, shaftlike column of a tree that grows quickly, like all poplars, and often reaches 80 to 100 feet in height. The Lombardy is not for shade, but for ornament or sky screen. Makes a very fine effect when planted close together, making a thick, high screen. Branched always from the ground up.

3 to 4 feet.....	\$3.00	\$ 6.00	\$20.00
4 to 5 feet.....	4.00	7.50	30.00

**OSAGE ORANGE** (*Maclura ponifera*). A medium sized spiny tree with spreading branches; rather large, fernlike leaves of bright green which change to yellow in fall. Flowers are inconspicuous, but the succeeding orangelike fruits are attractive. It is chiefly utilized as a close, thorny, stock-turning hedge plant and allowed to grow fairly tall.

12 to 18 inch.....	\$1.50	\$ 2.50	\$ 8.00
18 to 24 inch.....	1.75	3.00	10.00

**FRAGRANT BUSH HONEYSUCKLE** (*Lonicera fragrantissima*). One of the most satisfactory tall-growing hedge plants. We do not recommend where you want to keep it under 3½ to 4 feet. The small cream bell-like blossoms appear in very early spring and are quite fragrant. Normally grows into a hedge 6 to 12 feet. Requires little pruning and will thrive in almost any soil.

12 to 18 inch.....	\$1.75	\$ 3.00	\$ 8.00
18 to 24 inch.....	2.00	4.00	10.00

**CHINESE ELM**. Very hardy, drought-resistant, and will grow in almost any soil. This is one of the most rapid growing trees we have. It is heav-

ily covered with narrow dark green foliage, which gives it a lovely gracefulness similar to Birch. Ideal for windbreak and screen planting.

	Each	Per 10
12 to 18 inch.....	\$1.50	\$ 2.00
18 to 24 inch.....	1.75	2.50
2 to 3 feet.....	2.00	3.50
		10.00

### BROADLEAF EVERGREENS

The South is indeed fortunate in the wealth of Broadleaved Evergreens which flourish in practically all sections of it. Many of these have beautiful blooms and berries—a distinct advantage over the conifers. With the use of broadleaved material one is able to get definite contrasts in color and size of foliage; blossoms over long periods; low growing or tall growing plants as the location demands. You will be delighted with their beauty all the year 'round, and will like the plants we supply.

**ABELIA GRANDIFLORA** (*Glossy arbutus*). Few shrubs are of greater value than the Abelias for planting at house foundations, for specimens about the lawn, or grouped in corners or curves of walks and drives. The graceful arching stems are clothed with dark glossy leaves, which are evergreen in the South. Flowers white, tinged with pink, borne in profuse clusters from early summer until checked by frost.

18 to 24 inch.....	\$ .50	\$ 4.50
2 to 3 feet.....	.75	6.00
3 to 4 feet.....	1.00	7.50

**BOXWOOD** (*Buxus Sempervirens*). The old English Bush Box, with its shiny green foliage, is a plant that can be used in many ways. As a hedge it gives character to every place; in an informal group it has no rival. It may be clipped to any desired shape or allowed to grow naturally.

12 to 15 inch B&B.....	\$2.50	\$22.50
15 to 18 inch B&B.....	3.50	30.00
18 to 24 inch B&B.....	4.50	40.00

**CHERRY LAUREL** (*Laurocerasus caroliniana*).

Excellent for screen, as it is a fast growing, erect evergreen; also for formal work, since these plants stand pruning especially well. Leaves large, deep green, bright and shiny. Ornamental, useful, and desirable.

2 to 3 feet B&B.....	\$1.75	\$15.00
3 to 4 feet B&B.....	2.50	20.00
4 to 5 feet B&B.....	3.00	25.00

**COTONEASTER HORIZONTALIS** (*Rock Horizontalis*). A low-spreading plant with small leaves, pinkish white flowers which are followed by red berries in the fall. Good for low planting, rockeries, or similar location. One of the best.

12 to 18 inch B&B.....	\$1.50	\$12.50
18 to 24 inch B&B.....	1.75	15.00
24 to 30 inch B&B.....	2.00	17.50

**CYTISUS SCOPARIUS** (*Scotch Broom*). While this plant is not evergreen, the slender strawlike twigs remain green, giving the effect of an evergreen. The yellow, pea-shaped flowers are very showy in early summer. Will grow better in



poor, but well-drained, sandy soil than in heavy clay.

	Each	Per 10
18 to 24 inch B&B.....	\$1.25	\$10.00
2 to 3 feet B&B.....	1.50	12.50
3 to 4 feet B&B.....	1.75	15.00

#### **ELEAGNUS FRUITLANDI (Fruitland Eleagnus).**

A very choice and handsome variety, strong spreading grower, leaves grayish-green, large pointed, silvery on the underside. Bears showy, edible fruit in profusion.

18 to 24 inch B&B.....	\$1.50	\$12.50
24 to 30 inch B&B.....	1.75	15.00
30 to 36 inch B&B.....	2.00	17.50

#### **EUONYMUS JAPONICA (Evergreen Euonymus).**

A handsome evergreen with upright habit of growth. The foliage is a dark green. This is good as a specimen plant or for background planting. Leaves are occasionally followed by bright red berries.

12 to 18 inch B&B.....	\$1.25	\$10.00
18 to 24 inch B&B.....	1.50	12.50
2 to 3 feet B&B.....	1.75	15.00

#### **EUONYMUS SEIBOLDIANA (Burning Bush.)**

A handsome Chinese Burning Bush, particularly lovely in fall and winter when covered with myriads of coral-red berries. Its dark green foliage leaves are evergreen except in severe cold weather.

12 to 18 inch B&B.....	\$1.25	\$10.00
18 to 24 inch B&B.....	1.50	12.50
24 to 30 inch B&B.....	2.00	15.00

#### **EUONYMUS RADICANS (Winter-Creeper).**

A slow-growing vine that adheres to masonry and remains deep green all winter.

12 to 15 inch B&B.....	\$ .85	\$ 7.50
15 to 18 inch B&B.....	1.00	9.00

#### **HOLLY:**

**American Holly (Ilex opaca).** A handsome broadleaf evergreen tree, familiar to the majority of Americans as Christmas Holly. The spiny-green leaves and bright berries bring back Christmas memories. It is easily cultivated and thrives in almost any soil.

2 to 3 feet B&B.....	\$2.50	\$20.00
3 to 4 feet B&B.....	3.00	25.00
4 to 5 feet B&B.....	4.00	35.00

**Round Leaf Japanese Holly (Ilex crenata rotundifolia).** This very hardy type of Japanese Holly is similar to Ilex Crenata except for its larger and more rounded foliage leaves, and its more rapid habit of growth. Well adapted to shearing.

12 to 18 inch B&B.....	\$2.00	\$17.50
18 to 24 inch B&B.....	2.50	22.50
2 to 3 feet B&B.....	3.00	27.50

#### **MAGNOLIA GRANDIFLORA (Southern Magnolia).**

The Evergreen Magnolia of the South, with large, glossy green leaves. Beautiful waxy white flowers are borne in the early summer and followed by large cones full of red seed in the fall. It is one of the best Southern ornamental trees,

and is a member of the Broadleaf family of Evergreens.

	Each	Per 10
2 to 3 feet B&B.....	\$2.50	\$22.50
3 to 4 feet B&B.....	2.75	25.00

**MOUNTAIN LAUREL (*Kalmia Latifolia*).** The well-known Laurel of the Blue Ridge Mountains. One of the most beautiful broadleaf evergreens; glossy green leaves, with flowers borne in cluster in delicate pink colors in May and June. Related to and thrives under conditions similar to Azaleas.

12 to 18 inch B&B.....	\$1.25	\$10.00
18 to 24 inch B&B.....	1.75	15.00

**LIGUSTRUM JAPONICA (Japanese Privet).** A beautiful form of Japanese Privet. Large, thick leaves of dark shining green; produces large heads of white flowers in May, followed by black berries, which are retained throughout the winter. A most desirable plant for grouping or foundation planting.

2 to 3 feet B&B.....	\$1.50	\$12.50
3 to 4 feet B&B.....	1.75	15.00

**LIGUSTRUM LUCIDUM (Wax-leaf Privet).** The well-known Wax Privet so extensively planted in the last few years. Deep, glossy green leaves. This plant is a very compact, symmetrical grower and does well in either shade or sun. Early in May it has panicles of white flowers, which are followed by large clusters of black berries, which remain through the winter.

18 to 24 inch B&B.....	\$1.50	\$12.50
24 to 30 inch B&B.....	1.75	15.00
30 to 36 inch B&B.....	2.00	17.50

**NANDINA DOMESTICA (Heavenly Bamboo).** A most striking plant in fall and winter, when the normally green leaves turn a deep crimson. Mature plants have large clusters of brilliant scarlet berries which hang on well after Christmas. A beautiful upright growing shrub, doing well in either sun or shade. Particularly desirable when planted in front of green foliage plants.

18 to 24 inch B&B.....	\$1.50	\$12.50
24 to 30 inch B&B.....	1.75	15.00

**MAHONIA AQUIFOLIUM (Oregon Holly-Grape).** The thick, glossy leaves resemble Holly, but are much larger and far more attractive. Makes a compact bush, and when cut to the ground every few years will become an indescribable mass of green and bronze foliage. Yellow blossoms in June followed by blue berries. Thrives in shade especially.

15 to 18 inch B&B.....	\$1.75	\$15.00
18 to 24 inch B&B.....	2.00	17.50

**MAHONIA JAPONICA BEALI (Japanese Mahonia, or Leather-Leaf Holly Grape).** This Asiatic form has large, rather spiny shiny leaves and is most attractive. Yellow flowers in spring, followed with black berries. Does best in partial shade.

15 to 18 inch B&B.....	\$1.75	\$15.00
18 to 24 inch B&B.....	2.00	17.50

**PHOTINIA SERRULATA (Low Photinia).** Very desirable for foundation planting or the shrub border. Its large corycombs of white flowers are outstanding in the spring. In the fall much of its foliage takes on varying hues of red. Has ruffled, Hollylike leaves which are unusually attractive.

	Each	Per 10
15 to 18 inch B&B.....	\$1.75	\$15.00
18 to 24 inch B&B.....	2.00	17.50

**PYRACANTHA LALANDI (Laland Firethorn).** This outstanding evergreen shrub is rapidly gaining in popularity. An upright growing plant with narrow green leaves. Very hardy and safe. Orange colored berries after August.

18 to 24 inch B&B.....	\$1.75	\$15.00
2 to 3 feet B&B.....	2.00	17.50
3 to 4 feet B&B.....	2.25	20.00

**VIBURNUM RHYTIDOPHYLLUM (Leather-Leaf Viburnum).** In the whole group of Broadleaved Evergreens, no "new" plant has proved so valuable as this Viburnum with its mass of leathery dark green foliage. It is hardy, withstands exposure, and is exceptionally desirable for city planting. Will grow in any soil. Yellowish flowers followed by red berries.

18 to 24 inch B&B.....	\$2.00	\$17.50
2 to 3 feet B&B.....	2.50	22.50

### CONIFEROUS EVERGREENS

For wonderful effect both winter and summer, the Evergreen has no superior. Succeeding in almost any soil, with their range of color, form, and habit of growth, they find a place in almost any landscape plan. Our trees are all several times transplanted, dug with ball of earth, and the finest to be had.

**ARBORVITAE (Hill's Pyramidal).** One of the leading upright growers for foundation plantings and other landscape uses. A dense, compact type of good green color, narrow and pyramidal in habit.

	Each	Per 10
18 to 24 inch.....	\$1.75	\$15.00
2 to 3 feet.....	2.25	20.00
3 to 4 feet.....	2.75	25.00

**ARBORVITAE (Berckman's Golden).** A beautiful dwarf, compact variety of golden color. Foliage of yellow-green, tipped with pure gold in spring and early summer.

12 to 15 inch.....	\$1.75	\$15.00
15 to 18 inch.....	2.25	20.00
18 to 24 inch.....	2.50	22.50

**ARBORVITAE (Woodward Globe).** One of the old and well-known globe forms. Forms a good bushy natural globe-shaped tree of compact form and good color. The foliage is light green and attractive.

12 to 15 inch.....	\$1.75	\$15.00
15 to 18 inch.....	2.25	20.00
18 to 24 inch.....	2.50	22.50



**ARBORVITAE (Biota Bonita).** A perfect globe-shaped, dwarf growing plant of dark green color. One of the prettiest of the dwarf varieties.

	Each	Per 10
12 to 15 inch.....	\$1.75	\$15.00
15 to 18 inch.....	2.25	20.00
18 to 24 inch.....	2.50	22.50

**ARBORVITAE (Biota Excelsa).** Broad, compact grower with tapering top. Foliage a good green. One of the hardiest of the Oriental type and one of the most beautiful.

18 to 24 inch.....	\$1.75	\$15.00
2 to 3 feet.....	2.25	20.00
3 to 4 feet.....	2.50	22.50

**HEMLOCK (Tsuga canadensis).** A native American tree at home in the deep woods where it will stand severe cold. This grand tree has more uses than most any evergreen; grows rapidly, can be pruned to any shape, does well in both sun and shade, is very graceful, and has good color both winter and summer.

18 to 24 inch.....	\$2.50	\$22.50
2 to 3 feet.....	3.00	27.50
3 to 4 feet.....	3.50	32.50

**JUNIPER (Pfitzer).** Doubtless the most popular of the low growing, spreading Junipers. The branches are partly upright, with drooping tips. Foliage a beautiful silvery-green, holding its color both winter and summer. Perfectly hardy.

15 to 18 inch.....	\$2.00	\$17.50
18 to 24 inch.....	2.50	22.50
24 to 30 inch.....	2.75	25.00

**JUNIPER (Savin).** Of spreading, procumbent growth. Foliage pure dark green. Well suited to base or low mass plantings.

15 to 18 inch.....	\$2.00	\$17.50
18 to 24 inch.....	2.50	22.50
24 to 30 inch.....	2.75	25.00

**JUNIPER (Spiny Greek).** A medium, dense, narrow type with bluish-green metallic, spiny foliage. Makes very compact, conical plant which is very attractive.

15 to 18 inch.....	\$2.00	\$17.50
18 to 24 inch.....	2.50	22.50
24 to 30 inch.....	2.75	25.00

**JUNIPER (Irish).** It is slender in habit and needs no shearing. Of decided columnar form and immediately attracts attention. Foliage is glossy green.

2 to 3 feet.....	\$2.50	\$22.50
3 to 4 feet.....	2.75	25.00

**JUNIPER (Hill's Golden Pfitzer).** This is an exquisite new yellow form of the widely known Pfitzer Juniper. It has met with enthusiastic response wherever sold. Foliage comes out clear canary yellow interspersed with green. It loses

some of its bright color in the late summer, but comes out again in the spring with brilliant gold.

	Each	Per 10
15 to 18 inch.....	\$2.00	\$17.50
18 to 24 inch.....	2.50	22.50
24 to 30 inch.....	2.75	25.00

**JUNIPER VIRGINIANA CANNARTI.** A hardy, semidwarf variety, with dark, rich green foliage which appears in tufts. The natural growth is beautiful and somewhat open, though the plant may be made compact and kept within any size by shearing.

3 to 4 feet.....	\$4.00	\$35.00
4 to 5 feet.....	5.00	45.00

**JUNIPER VIRGINIANA GLAUCA (Blue Juniper).** Of tall, slender habit, with spreading branches. Foliage of soft appearance, of silvery-gray, which is very attractive. May be sheared into columnar shape, giving tall column of silver-gray.

3 to 4 feet.....	\$4.00	\$35.00
4 to 5 feet.....	5.00	45.00

**JUNIPER (Virginiana Kosterii).** A splendid semi-dwarf plant, with half erect arching branches. Bluish-green foliage; one of the most valuable evergreens.

15 to 18 inch.....	\$2.00	\$17.50
18 to 24 inch.....	2.50	22.50
24 to 30 inch.....	2.75	25.00

**RETINOSPORA PLUMOSA (Green Plume Retinospora).** Soft, feathery foliage which is light green in color. Especially useful in foundation plantings, and if kept properly trimmed will make a solid green mass.

18 to 24 inch.....	\$1.75	\$15.00
2 to 3 feet.....	2.25	20.00
3 to 4 feet.....	2.75	25.00

**RETINOSPORA PLUMOSA AUREA (Gold-tip Retinospora).** Same description applies to this as the Green Plume Retinospora, except that tips are golden. Makes a very showy and attractive plant in any group or planting.

18 to 24 inch.....	\$1.75	\$15.00
2 to 3 feet.....	2.25	20.00
3 to 4 feet.....	2.75	25.00

**MUGHO PINE (Pinus mughus).** An excellent dwarf Pine, globe-shaped, and erect branching. It is especially attractive in the spring, when the new growth, which looks like miniature candles, completely covers the bush. Color is deep green in summer and winter.

12 to 15 inch.....	\$2.00	\$17.50
15 to 18 inch.....	2.50	22.50

**NORWAY SPRUCE.** This is a symmetrical, well-formed pyramid. Makes a good screen or wind-break, and also may be trimmed in hedge form. One of the most dependable of Spruces.

18 to 24 inch.....	\$2.25	\$20.00
2 to 3 feet.....	2.75	25.00

**WHITE SPRUCE.** The same type growth as the Norway, except for the silvery foliage; develops into a shapely specimen of the close texture type. Long-lived.

	Each	Per 10
18 to 24 inch.....	\$2.25	\$20.00
2 to 3 feet.....	2.75	25.00

### SHADE TREES

Trees are a proper background for every home planting, and they add as much to the beauty and comfort of the place as the house itself. The trees we list are native over a wide area, and if planted carefully and given proper cultivation, they will succeed in almost every instance.

**RIVER BIRCH.** A highly ornamental tree, requiring a moist location. It has dense growth of small branches, and its ragged orange bark makes it very attractive.

	Each	Per 10
5 to 6 feet.....	\$1.25	\$10.00
6 to 8 feet.....	1.50	12.50

**CATALPA SPECIOSA.** A large handsome tree with immense tropical leaves and big clusters of white flowers with purple center. A very quick growing and a very fine tree. Does well in poor soil.

4 to 5 feet.....	\$ .75	\$ 6.00
5 to 6 feet.....	.90	7.50

**CHINESE ELM.** Rapid growing tree, which is hardy, drouth resistant, and attains magnificent proportions with beauty and grace. Foliage dark green, dense; excellent for windbreak. Leaves appear early in spring and hang on until late autumn.

4 to 5 feet.....	\$ .85	\$ 7.50
5 to 6 feet.....	1.00	9.00
6 to 8 feet.....	1.50	12.00
8 to 10 feet.....	1.75	15.00

**HACKBERRY (*Celtis occidentalis*).** A graceful tree with spreading branches, forming a broad round head. Leaves oblique and long pointed, mostly entire dark green. Fruit resembling a diminutive cherry, bright orange-red with thin dry flesh; vigorous, hardy, thriving in almost any soil.

5 to 6 feet.....	\$1.25	\$10.00
6 to 8 feet.....	1.50	12.50

**SWEET GUM (*Liquidamber styraciflua*).** One of our native trees that is not fully appreciated. This is a shapely tree with slender corky-ridge branches, forming a pyramidal head. The leaves are a starry shaped, very bright green at maturity, fading in autumn with tones of crimson.

5 to 6 feet.....	\$1.25	\$10.00
6 to 8 feet.....	1.75	15.00
8 to 10 feet.....	2.25	20.00



**SILVER MAPLE (*Acer dasycarpum*).** Large tree with wide spreading branches; very rapid growing; desirable for street or lawn planting. Leaves light green, showing silvery white beneath, giving beautiful effect.

	Each	Per 10
4 to 5 feet.....	\$ .75	\$ 6.00
5 to 6 feet.....	1.00	8.00
6 to 8 feet.....	1.50	12.50

**NORWAY MAPLE (*Acer Platanoides*).** A large handsome tree with compact rounded head. One of the best ornamental trees. Leaves bright green, paler beneath, smooth on both surfaces, fading with tones of yellow and gold. Valuable for parks and lawns.

5 to 6 feet.....	\$2.00	\$17.50
6 to 8 feet.....	2.25	20.00

**RED or SCARLET MAPLE (*Acer Rubrum*).** A large tree with upright spreading branches. Leaves light green, turning in autumn to brilliant shades of scarlet and orange. Flowers in early spring or late winter bright scarlet.

5 to 6 feet.....	\$1.25	\$10.00
6 to 8 feet.....	1.50	12.50

**SUGAR or HARD MAPLE (*Acer saccharum*).** This is one of the most desirable shade and ornamental trees. It is always erect and neat in appearance. Dependable for shade for street or lawn, but rather slow growing.

5 to 6 feet.....	\$1.50	\$12.50
6 to 8 feet.....	1.75	15.00

**NATIVE ASH (*Fraxinus americana*).** A lofty tree with spreading branches. Foliage is dark green and lustrous, fading in autumn with tones of purple and yellow. Desirable lawn tree.

4 to 5 feet.....	\$ .75	\$ 6.50
5 to 6 feet.....	.90	8.00
6 to 8 feet.....	1.25	10.00

**LOMBARDY POPLAR.** A wonderfully effective tree when properly used in plantings. A very rapid grower and becomes more beautiful with age. Grows tall and slender, making a true column.

4 to 5 feet.....	\$ .75	\$ 6.00
5 to 6 feet.....	.90	7.50
6 to 8 feet.....	1.05	9.00

**AMERICAN SYCAMORE (*Platanus occidentalis*).** A large and lofty tree with massive branches. Easy to transplant and adapted to a very wide territory. Foliage is luxuriant and tree gives quick shade.

4 to 5 feet.....	\$ .75	\$ 6.50
5 to 6 feet.....	.90	8.00
6 to 8 feet.....	1.25	10.00

**WEeping WILLOW (*Salix babylonica*).** A tree of stately appearance with long drooping branches

that sway in the breeze. Easy to transplant and beautiful for lawn or for screen.

	Each	Per 10
4 to 5 feet.....	\$1.10	\$ 9.00
5 to 6 feet.....	1.50	12.50
6 to 8 feet.....	1.75	15.00

### FOREST TREE SEEDLINGS

Waste of our natural resources has reached an alarming state, but little can be accomplished to correct this without awakening the private land-owners to this dreadful destruction confronting us. Try a few thousand of these tree seedlings if you have an idle field. Such a move not only is patriotic, but will also yield an income on your investment.

#### ASH, Green and White.

	Per 25	Per 100	Per 250
12 to 18 inch.....	\$1.00	\$ 3.00	\$ 5.00
18 to 24 inch.....	1.25	4.00	7.50
2 to 3 feet.....	1.50	5.00	10.00

#### BEECH, American.

6 to 12 inch.....	\$1.00	\$ 3.00	\$ 5.00
12 to 18 inch.....	1.25	4.00	7.50
18 to 24 inch.....	1.50	5.00	10.00

#### BIRCH, River.

6 to 12 inch.....	\$1.25	\$ 4.00	\$ 7.50
12 to 18 inch.....	1.50	5.00	10.00
18 to 24 inch.....	1.75	6.00	12.50

#### BUCKEYE.

6 to 12 inch.....	\$1.25	\$ 4.00	\$ 7.50
12 to 18 inch.....	1.50	5.00	10.00
18 to 24 inch.....	1.75	6.00	12.50

#### BUTTERNUT.

6 to 12 inch.....	\$1.50	\$ 5.00	\$10.00
12 to 18 inch.....	1.75	6.00	12.50
18 to 24 inch.....	2.00	7.00	15.00

#### CATALPA SPECIOSA.

6 to 12 inch.....	\$1.00	\$ 3.00	\$ 5.00
12 to 18 inch.....	1.25	4.00	7.50
18 to 24 inch.....	1.50	5.00	10.00

#### CHERRY, Wild Black.

12 to 18 inch.....	\$1.75	\$ 6.00	\$12.50
18 to 24 inch.....	2.00	7.00	15.00

#### COFFEE TREE (Kentucky).

12 to 18 inch.....	\$6.25	\$20.00	\$40.00
18 to 24 inch.....	7.50	25.00	50.00

#### DOGWOOD, White Flowering.

6 to 12 inch.....	\$1.50	\$ 5.00	\$10.00
12 to 18 inch.....	1.75	6.00	12.50
18 to 24 inch.....	2.00	7.00	15.00

## 34 CUMBERLAND VALLEY NURSERIES, INC.

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### ELM, American.

	Per 25	Per 100	Per 250
6 to 12 inch.....	\$1.00	\$ 3.00	\$ 5.00
12 to 18 inch.....	1.25	4.00	7.50
18 to 24 inch.....	1.50	5.00	10.00

### ELM, Chinese.

6 to 12 inch.....	\$1.50	\$ 5.00	\$10.00
12 to 18 inch.....	1.75	6.00	12.50
18 to 24 inch.....	2.00	7.00	15.00

### HACKBERRY.

6 to 12 inch.....	\$1.00	\$ 3.00	\$ 5.00
12 to 18 inch.....	1.25	4.00	7.50
18 to 24 inch.....	1.50	5.00	10.00

### HICKORY.

6 to 12 inch.....	\$2.25	\$ 7.50	\$15.00
12 to 18 inch.....	3.75	12.00	25.00

### HORNBEAM, American.

12 to 18 inch.....	\$1.50	\$ 5.00	\$10.00
18 to 24 inch.....	1.75	6.00	12.50

### LINDEN, American.

6 to 12 inch.....	\$1.50	\$ 5.00	\$10.00
12 to 18 inch.....	1.75	6.00	12.50

### LOCUST, Black.

6 to 12 inch.....	\$ .75	\$ 1.50	\$ 3.00
12 to 18 inch.....	1.00	2.00	4.00
18 to 24 inch.....	1.25	2.50	5.00

### LOCUST, Honey.

6 to 12 inch.....	\$1.00	\$ 3.00	\$ 5.00
12 to 18 inch.....	1.25	4.00	7.50
18 to 24 inch.....	1.50	5.00	10.00

### MAPLE, Red or Scarlet.

12 to 18 inch.....	\$1.50	\$ 5.00	\$ 9.00
18 to 24 inch.....	2.00	7.00	15.00

### MAPLE, Hard or Sugar.

6 to 12 inch.....	\$1.50	\$ 5.00	\$ 9.00
12 to 18 inch.....	2.00	7.00	15.00
18 to 24 inch.....	2.50	9.00	20.00

### MAPLE, Silver.

12 to 18 inch.....	\$1.00	\$ 3.00	\$ 5.00
18 to 24 inch.....	1.25	4.00	7.50
2 to 3 feet.....	1.50	5.00	10.00

### MAIDENHAIR TREE.

6 to 12 inch.....	\$5.00	\$15.00	\$35.00
12 to 18 inch.....	7.00	20.00	45.00



**OSAGE, Orange.**

	Per 25	Per 100	Per 250
6 to 12 inch.....	\$1.00	\$ 3.00	\$ 5.00
12 to 18 inch.....	1.25	4.00	7.50
18 to 24 inch.....	1.50	5.00	10.00

**PERSIMMON, American.**

6 to 12 inch.....	\$1.50	\$ 5.00	\$ 9.00
12 to 18 inch.....	2.00	7.00	15.00

**POPLAR, Lombardy.**

12 to 18 inch.....	\$1.50	\$ 5.00	\$10.00
18 to 24 inch.....	1.75	6.00	12.50

**REDBUD.**

6 to 12 inch.....	\$1.25	\$ 4.00	\$ 7.50
12 to 18 inch.....	1.50	5.00	10.00
18 to 24 inch.....	1.75	6.00	12.50

**SASSAFRAS.**

12 to 18 inch.....	\$1.50	\$ 5.00	\$10.00
18 to 24 inch.....	1.75	6.00	12.50

**SILK TREE (Mimosa).**

6 to 12 inch.....	\$4.00	\$12.00	\$20.00
12 to 18 inch.....	5.00	15.00	25.00

**SYCAMORE, American.**

6 to 12 inch.....	\$1.00	\$ 2.00	\$ 4.00
12 to 18 inch.....	1.25	2.50	5.00

**TREE OF HEAVEN.**

12 to 18 inch.....	\$1.25	\$ 4.00	\$ 7.50
18 to 24 inch.....	1.50	5.00	10.00

**WALNUT, Black.**

6 to 12 inch.....	\$1.50	\$ 5.00	\$10.00
12 to 18 inch.....	1.75	6.00	12.50
18 to 24 inch.....	2.00	7.00	15.00

**WALNUT, White.**

6 to 12 inch.....	\$1.50	\$ 5.00	\$10.00
12 to 18 inch.....	1.75	6.00	12.50
18 to 24 inch.....	2.00	7.00	15.00

**WILLOW, Weeping.**

12 to 18 inch.....	\$1.75	\$ 6.00	\$12.50
18 to 24 inch.....	2.00	7.00	15.00

**CLIMBING VINES AND CREEPERS**

These are the draperies that Nature gives to us to cover porches, arbors, fences, and to disguise unsightly buildings and old trees. Use vines freely to make the landscape more beautiful. They thrive almost anywhere, cost little, and give a large return in comfort and pleasure.

**AMPELOPSIS (Virginia Creeper).** This is the five-leaved Ivy that is so valuable for covering walls, fences, etc. It will grow anywhere and colors brilliantly in the Fall.

	Each	Per 10
Two year .....	\$ .35	\$ 3.00

**BOSTON IVY.** The best of the self-clinging vines. Foliage is small, deep green, and very dense, covering any object completely. Colors beautifully in the Fall. Slow to start but vigorous when established.

Two year .....	\$ .35	\$ 3.00
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**ENGLISH IVY.** The most popular evergreen vine. Has large, deep green, glossy foliage and is unexcelled for covering walls in shady and cool places.

Two year .....	\$ .35	\$ 3.00
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**BIGNONIA RADICANS (Trumpet Vine).** A vigorous woody vine, bearing scarlet flowers followed by long pods. It is a native of this section, easy to establish, and grows luxuriantly.

Two year .....	\$ .35	\$ 3.00
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**CELASTRUS SCANDENS (Bittersweet).** An unusually attractive vine because of its showy berries in the fall and early winter. Vigorous.

Two year .....	\$ .35	\$ 3.00
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**HALL'S HONEYSUCKLE.** This is probably the most used of all vines; good for soil erosion, for running on fences, and many other places; white and yellowish flowers; very fragrant.

Two year .....	\$ .35	\$ 3.00
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**SCARLET TRUMPET HONEYSUCKLE.** Attractive, trumpet-shaped flowers of bright scarlet.

Two year .....	\$ .35	\$ 3.00
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**WISTERIA (Chinese Wisteria).** A rampant clinging vine that has the robust vigor of a wild grape and the matchless beauty of a rare exotic. Flowers in large, drooping clusters. We offer the blue or the white variety.

Two year .....	\$ .35	\$ 3.00
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**BUSH ROSES**

For cut flowers the Bush Roses cannot be surpassed, and the well-cared for Rose Garden is not only a thing of beauty on the home grounds, but will give magnificent blooms for cutting for the house decoration. There are many choice Bush Roses which will give a wealth of bloom from early summer until frost. We have endeavored to keep our varieties of the best known and most popular sorts which are sure to give good results. No flower is so much loved, appreciated, and enjoyed as the Rose.

	Each	Per 10	Per 100
Strong two-year plants .....	\$ .90	\$ 8.50	\$75.00

### RED

**American Beauty.** Healthy rose red. An old favorite. Very hardy and a vigorous grower. Free bloomer. Fragrant and always in demand.

**Charles K. Douglas.** A top-notch, semidouble, scarlet-crimson rose. Strong plant with good foliage. Exceedingly well liked.

**Etoile de Holland.** Brilliant red; large flowers of velvety crimson; produces a large quantity of blooms throughout the summer.

**Red Radiance.** This is one of the strongest and most vigorous growers; most dependable of the roses and a universal favorite. An excellent variety for cutting and for the garden.

**E. G. Hill.** Without doubt one of the greatest of all the red roses. Will thrive and do well with ordinary attention. Very fragrant and lasting. Produces immense numbers of deep, rich glowing red blooms over long period of time.

### WHITE

**Caledonia.** Purest white; large, perfectly formed buds on strong stems, opening into large flowers that retain their form until petals fall. No white rose can surpass this perfect variety.

**Frau Karl Druschki.** Very large, perfect form and snow-white; a vigorous grower and a free bloomer.

**Kaiserin Augusta Victoria.** Well-formed, cream-colored buds opening into white flowers. Free blooming; hardy.

### PINK

**Editor McFarland.** Deep pink. One of the finest pink garden roses grown today. Its pointed buds on nice long cutting stems last longer and retain their form wonderfully well. A Rose that should be in every garden.

**Columbia.** A wonderful rose for cutting. The buds are full, well-formed; the flowers are perfectly modeled, of clear bright pink with outer petals of silvery pink. A healthy, medium grower.

**Pink Radiance.** Brilliant rose pink buds; a well-formed flower of shiny pink with light tints on the reverse of the petals; one of the strongest and most vigorous growers. The most dependable of all pinks and a universal favorite.

**Dame Edith Helen.** One of the largest and most perfectly shaped pink roses known. Flowers uniformly well shaped. Has attracted unstinted praise. The most perfumed of all pink roses.

**Edith Nellie Perkins.** A strong vigorous grower. The outer petals are of a shimmering silvery pink, while the deeper center petals are more of a soft shade of rose color.

### YELLOW

**Golden Dawn.** Large, straw-yellow buds opening to pale lemon-yellow, double flowers with slight old rose markings. Rarely out of bloom. Bronzy foliage, free of disease.

**Lady Hillingdon.** An apricot yellow shaded to orange on the outer petals, becoming deeper and more intense in the center of the bloom.



**Luxembourg.** With long pointed buds of beautiful bronze yellow; very fragrant. One of the best yellow roses.

**Joanna Hill.** A splendid clear yellow with a golden heart; very large pointed buds which open full; fragrant; profuse bloomer.

## TWO-TONED

**Talisman.** Multicolored. Glorious combination of orange, yellow, and rose-red. The fragrant flowers are much more highly colored in autumn.

**President Herbert Hoover.** A most popular rose. It is maroon, orange, and gold, rioting in a most contrasting fashion. Long, pointed buds; rigid stems. A fine garden rose, blooming well in the autumn. By far the best of its color.

## CLIMBING ROSES

Where there is seemingly no room for Bush Roses, the Climbing Roses may find a place in the fence corner and in out-of-the-way places, reaching out and covering old fences or walls and giving a mass of gorgeous bloom. The Climbing Roses are easy of growth, are useful in many places, and will give an abundance of bloom the second season after planting.

	Each	Per 10	Per 100
Strong two-year plants.....	\$ .90	\$ 8.50	\$75.00

**Climbing American Beauty.** One of the best of the Climbing Roses. The large fragrant rosy-carmine flowers are produced in great abundance, and are excellent for cutting. For single or mass planting this is one of the best.

**Climbing K. A. Victoria.** Flowers identical with the bush K. A. Victoria; stems long, carrying one or more perfect cream-white double flowers. An excellent climber of good growth and foliage.

**Dr. W. Van Fleet.** Clusters are perfectly formed, long pointed, deep pink buds open into large flowers of lighter pink. A strong grower with abundant glossy foliage which is disease resistant. One of the best climbers in cultivation.

**Marechal Niel.** A beloved, well-known old rose with magnificent large golden-yellow flowers of delicate fragrance and texture. An abundant bloomer. Somewhat tender variety which blooms in spring and at intervals throughout the season if well cultivated and watered.

**Paul's Scarlet Climber.** No other rose shows such brilliant, fiery scarlet blooms. The flowers are of medium size and are produced in clusters of five to ten or more, each stem being a veritable bouquet. Of strong climbing habit and perfectly hardy.

## COMBINATION FRUIT TREES

Throughout the past year the popularity of the Combination Fruit Tree has increased at an astonishing pace. This is only natural when you stop to consider the nature of this tree. It fulfills the need of the small homeowner who has very little space to devote to fruit trees. We are growing these novelty trees again this year to satisfy the request of hundreds of our customers who are anxious to grow these novelties for themselves. These will furnish plenty of shade and are highly ornamental at the same time.

**QUINTUPLET, or 5-N-1 Apple.****Five Kinds of Apples Grown on One Tree!****Ideal for Home Gardens**

The only Apple tree for the small homeowner. Will produce a bountiful supply of five different kinds of apples, in a chain of ripening, from early summer to late autumn. Varieties: Yellow Transparent, Red June, All Red Jonathan, Anoka, and Double Red Delicious.

**2 yr. Sturdy Trees @ \$2.00 each****2 or more @ \$1.75 each****NEW 5-N-1 PEACH.****Five Varieties on One Tree**

This tree, like Quintuplet Apple, is an outstanding novelty which we are offering for the first time. The practice of budding more than one kind of peach on a single tree is not new; propagators have been doing it for years, but up to this time it has never been done on a large scale. Our 5-N-1 Peach is composed of the best commercial varieties grown—Hale Haven, Belle of Georgia, Golden Jubilee, South Haven, and Elberta—giving you a supply of fruit throughout the entire season.

**Strong Two-Year Trees @ \$1.75 each****2 or more @ \$1.50 each****3-N-1 FRUIT TREE.****Peach-Plum-Apricot****Early Golden Apricot, Elberta Peach, Abundance Plum**

This tree, which is highly ornamental and which provides a complete orchard, does not require any more space than an ordinary fruit tree. Covered with pink and white blooms for a long period. Two trees will produce enough fruit in Apricots, Peaches, and Plums for an average family and have enough left over for your neighbor. Will bear the third year after planting.

**Good Heavy Two-Year Tree @ \$1.75 each****2 or more @ \$1.50 each**

It is not our policy to make extravagant claims as to the merit of our products, but we wish to assure you that these Combination Fruit Trees are hardy, vigorous stock and are very productive wherever planted. Be the first in your community to have these real worth-while novelties.

**CARE OF TREES AND PLANTS****Your Success with Nursery Stock Depends on  
Proper Planting and Care**

Volumes have been written on the planting and care of orchards and the beautification of home grounds, and yet each planting becomes an individual problem. Regardless of how choice your selection may be in trees and plants, or how perfect they may be when received by you, unless they are handled properly in planting and given the right

kind of care, they will not give the results that are desired. Therefore, we offer a few general suggestions on the care and cultivation of trees, which will help make a success of the planting of stock which we supply.

**Care of Stock.** The bundles should be opened immediately upon arrival, the roots of plants dipped in water, and heeled in the ground, if holes are not already to set where wanted. Dig a trench deep enough and wide enough to take the root-system, and then cover the roots, firming the soil so as to contact each root. If some of the trunk (or branches, in case of shrubs) is covered with soil, the protection is double. A little water applied to dry soil is helpful. Trees heeled in may be kept several weeks in perfect condition. When ready to plant, take up only a few at a time, puddle the roots, and do not allow them to lie exposed to the sun or air. Be sure to remove label wire before tree begins to grow, or it will be fatally injured through strangulation. The ground should be carefully prepared by deep plowing and firming down with a disc and harrow before setting orchard material.

**Planting.** The holes for planting must be large enough to receive the roots freely, without cramping or bending them from their natural position. All broken or mutilated portions of the roots must be cut off so as to leave the ends smooth and sound. All trees should be planted two or three inches deeper than they stood in the nursery row; pack the soil very firmly about the roots by tramping with the feet or post tamper, being careful not to bark or break the roots. Leave three inches of the surface soil loose to serve as a mulch. If the ground is very dry, apply one or two pails of water before this soil mulch is in place, and after the water has soaked away it can then be placed over the moist soil. Never put manure so as to come in contact with the roots of any plant or tree.

**Fall Planting.** Practically all items of nursery stock may be successfully planted in the fall and results obtained are generally highly satisfactory, usually much better than if planting is delayed too late in the spring. It is recommended that planting be done as soon as possible after the first killing frost, but hardy stock can be transplanted safely at any time during the winter when the ground is not frozen or too wet. Some precautions are necessary, however, with a few kinds of plants and trees which are somewhat more tender to cold. Special bulletin giving detailed instructions will be sent for the asking, 3c postage stamp being sent to cover cost of mailing.

**As experienced fruit growers,** we suggest that you plan for a succession of fruit, increasing quantities where you expect to market or store. It is inadvisable to plant too many varieties in the average orchard. There is no reason why you cannot have fresh fruit from the time that cherries ripen in May until well into the winter. We will help you plan your list if you will ask us.

**That you cultivate** your newly planted trees is just as important as it is to cultivate tobacco or any other crop. Only after the tree has become



well established should cultivation stop. Even then your trees will respond to fertilization and cultivation.

**Careful and proper setting of trees and plants** is necessary but is only the beginning of a successful orchard or beautiful home grounds. Cultivation, mulching, and watering, as well as spraying and pruning, must be carried on consistently or first investment will fail. Cover crops planted in the orchard and turned under with the plow at the right time will give both feed and humus to the soil; and thorough cultivation, intelligent fertilization, careful pruning, and seasonable spraying will give abundant returns for money, labor, and time so expended. To have good things for home requires thought and effort in all things, and trees and plants are no exceptions.

**Where plants have ball of earth** burlapped around roots, avoid breaking this ball. Set in a hole that is plenty large to receive without crowding, setting about one inch deeper than the surface of the ground, then cut the burlap loose from around the top of the ball and allow it to fall back in the hole without removing. Fill in around the ball as you would around the roots of any other plant, tightening thoroughly, and using plenty of water to settle.

**For shrubs and roses, etc.,** handle in the same way, though it is usually more desirable to prepare special bed for roses, selecting location that will have plenty of open air and sun, and particularly one that is well drained. It is usually better to remove the soil from the bed, filling in with good loam that is fairly rich, or using fertilizer in the soil. Plant so that plenty of room is given between the plants for cultivation. Remember that roses like lots of food and water during the summer months, and that you cannot hope to get blooms without this.

**These suggestions are brief,** their purpose being to impress on the home planter that good care and cultivation is necessary in order to secure best results, whether this be in the orchard or the grounds around the home. We shall at any time be glad to give instructions which may be needed for special planting and to help in any way possible to make a success of the trees and plants you purchase from us. Special bulletin on the care and cultivation of trees and plants will be sent upon request, as stated above. Your State Entomologist will supply you with a spray calendar for the asking, and will advise you where to get spraying materials at nearest point to you. Be sure to take any special problems you may have up with him. He will gladly help you.

## PRUNING

**Apple and Pear.** Select from three to five of the branches to form the permanent head of the tree. These branches should be well distributed around the trunk and at a safe distance apart up and down the trunk. If two branches come out, a split may occur at this weak point in later life when the tree is full of fruit. Shorten these selected branches to

about five buds, cutting the branches just above a bud that points outward. Remove all the other branches close to the trunk, leaving no stub longer than one-eighth to one-quarter inch. Also shorten back two-thirds the central leader of the tree, if one exists, else the tree assumes a too upright growth for best results in later life.

**Cherry.** Five or six good limbs, well distributed around the trunk, will be sufficient to form a well balanced top. The limbs left after pruning should not be cut back so severely as recommended for some other classes.

**Plum.** Cut back all branches to about two or three buds. After the tree has grown for a year, remove all but four or five branches, but do not cut them back. These buds will form the permanent framework for the top, and subsequent growth may be pruned to meet the requirements or taste of the planter.

**Peach.** These should be **planted immediately on delivery**; or, if not prepared to do so, the roots should be buried in the ground. They will not stand exposure to the sun or air, and many are lost simply for the want of care. As soon as planted, **cut back all side branches to within two or three inches of the main stem.** Make this the **invariable practice**, and never deviate from it if you wish to save your trees. The growth will be much more rapid and vigorous in consequence of this pruning, and by strictly adhering to it, and by immediate planting or covering the roots in the soil, very few, if any, trees will be lost. Peaches, like all other stock we deliver, will be in fine condition, having been carefully handled and kept from exposure by us. If you do not follow our directions and meet with loss, the fault will be entirely with you.

**Grapes.** These should be planted ten to twelve inches deep in holes large enough to admit roots without curling them, pressing soil solid about roots. Cut vines back to within three or four buds of the roots. Keep the ground clean by cultivating; if impossible to cultivate, mulch. Prune in February or early March, before there are any signs of new growth—hence the importance of annual and intelligent pruning.

### Number of Trees per Acre

The number of trees to be planted per acre varies somewhat with the soil and variety to be planted. Trees or plants on deep rich soil require more distance than on light poor soil. The following distances are usually recommended for average soils:

- Apple—35 x 35 feet—35 trees per acre.
- Pear and Peach—20 x 20 feet—108 trees per acre.
- Plum, Cherry, and Apricot—18 x 18 feet—134 trees per acre.
- Figs—15 x 15 feet—193 trees per acre.
- Pecan—40 x 40 feet—27 trees per acre.
- Grape—8 x 10 feet—545 vines per acre.
- Blackberry and Dewberry—3 x 8 feet—1,815 vines per acre.

To ascertain number of plants required per acre, divide the number of square feet in an acre (43,560) by the number of square feet to be given each plant. For instance, apple, 35 x 35 feet, requires 1,225 square feet per tree or 35 trees per acre.

## CONTROL OF INSECTS AND DISEASE

With the passing of each year, the necessity for spraying for insects and diseases which do damage to trees and plants becomes apparent, and while it is not always possible for the homeowner to identify certain insects and diseases, there are many which are very common and which are easily controlled. Where identification is not possible, samples may be sent to your state entomologist, where dependable advice will be gladly given. As suggested above, many of the common insects and diseases may be easily controlled by the home planter if he will take the trouble to equip himself with simple spray pumps and common insecticides for spraying, and with a few simple tools with which to do proper pruning. This material can usually be purchased from your local dealers or merchants or can be ordered from various dependable sources.

Insects are usually divided into two classes, the "biting and chewing" and "sucking" insects. The first may be controlled with poison when it is possible to so spray that the poison will be eaten, while the other can be controlled by what is termed contact sprays.

Diseases are usually caused by a fungus growth and are controlled by sprays known as fungicides. A few of the diseases, such as blight in pear, etc., are caused by bacteria, and where such diseases occur, one of the best remedies is to cut away the infected parts, destroying the prunings by burning.

Therefore, there are two general classes of sprays, insecticides and fungicides, and the insecticides being divided into two classes known as poison and contact insecticides. Arsenate of Lead is a good example of the poison insecticide, while Lime-Sulphur Solution is a good example of the contact insecticide, with Bordeaux Mixture being the old stand-by as a fungicide.

## SPRAY FORMULAS

**Arsenate of Lead.** One of the most common and most valuable poison sprays; may be prepared at home, using either powder or paste, it being easily procured in either form. Use at the rate of 2½ pounds of the paste or 2 pounds of powder to 50 gallons of water. Use for the control of flea beetle on grape, caterpillar on pecan, biting and chewing insects on shade trees, shrubs, etc., and for tent caterpillar on evergreens. Also use as spray for curculio and codling moth on fruit trees.

**Nicotine Solution.** This may be bought in concentrated form at almost any drugstore, usually under the name of "Black Leaf 40." In large quantities, use approximately  $\frac{3}{4}$  pint to 100 gallons of water, or in small quantities, use about 1 ounce to 8 gallons of water. In making the spray mix the nicotine with very heavy suds, using lye soap or strong laundry soap for the suds, as this will cause the spray to adhere and spread much better. This is very easily prepared at home and is an excellent spray for control of aphids on apple, plum, roses, etc., and for use in ridding plants of red spider.

**Lime-Sulphur Solution.** One of the most important contact sprays we have, being one of the most effective for treatment for San Jose scale while trees are dormant. If commercial Lime-Sulphur is used, it should be used 2 pounds to 8 or 10 gallons of water for the winter spraying, while for summer the dilution should be approximately 1 pound to 8 or 10 gallons of water. This spray is excellent for use while trees are dormant as it helps to keep them in healthy state and is particularly beneficial in the control of scale.

**Bordeaux Mixture.** This is easily secured in prepared form at almost any drugstore, and usually directions for preparation and dilution are given. This is particularly useful in control of mildew and all fungus diseases, such as brown rot on peach and apple, black rot in grape, or mildew on roses, etc.

All of these sprays may be used by the homeowner, applying with large sprayer in orchard or vineyard where necessary, or knapsack sprayer for use where only a few trees need treatment, or even a small hand sprayer for use on small plants around the home. A small investment in equipment and materials may mean many dollars to you in your orchard or beauty to you in your home grounds.

## SPRAYING GUIDE

### FOR ROSES

Time of Application	Spray Material	Enemy
1. When dormant.	Scalecide: 1 gal. to 20 gals. water.	Scale.
2. When insects make appearance.	Garden Volck 1 part to 32 parts water.	Aphids or plant-lice. Leaf-hopper.
3. When fungus appears.	Bordeaux Mixture, 8 lbs. to 50 gals. water. Repeat every 10 days.	Black-spot. Mildew.
4. When insects appear.	Burn diseased parts and spray with Bordeaux.	Anthracnose.
5. When disease appears.	Hand-pick and burn fallen buds. Spray plants with 2 lbs. Arsenate of Lead with 50 gals. water. Add 3 lbs. fresh Hydrated Lime.	Curculio. Caterpillar.



## SPRAYING GUIDE

## FOR PEACHES, PLUMS, NECTARINES, AND APRICOTS

Time of Application	Spray Material	Enemy
1. Dormant spray. In late fall or early spring 3 to 4 weeks before buds begin to swell.	Scalecide 1 gal. to 15 gals. water, or Lime-Sulphur Solution 1 gal. to 8 gals. water. If troubled with shot-hole fungus, substitute Bordeaux Mixture 6 lbs. to 50 gals. water. If both scale and disease appear, use both sprays separately.	Scale insects. Leaf-curl. Brown rot. Shot-hole fungus. General sanitation.
2. When trees are in pink stage.	Nutonex Sulphur 3 lbs. to 50 gals. water.	Scab and brown rot.
3. As soon as petals are two-thirds off.	Nutonex Sulphur 3 lbs. to 50 gals. water, with Arsenate of Lead $\frac{3}{4}$ lb. Add 3 lbs. fresh Hydrated Lime to each 50 gals. spray.	Curculio. Brown rot. Scab.
4. Shuck spray when husks begin dropping.	Same as third spray.	Curculio. Brown rot. Scab.
5. 2 or 3 weeks after No. 3.	Nutonex Sulphur 3 lbs. to 50 gals. water. Lead may not be needed.	Curculio. Scab. Brown rot.
6. 3 to 4 weeks before ripening.	Same as 5th spray.	Brown rot. Scab.

Nutonex Sulphur (dry powder) contains 90 per cent highly toxic and active sulphur and 10 per cent adhesive spreader. Atomic Sulphur is prepared in paste form.

Frequent cultivation after the blooming of the trees is advisable, to destroy brown rot fungus apotheca on the fallen mummied fruit from which spores are disseminating at this time to aid in control of the disease.

## FOR PEARS

1. Dormant.	Scalecide 1 gal. to 15 gals. water, or Lime-Sulphur Solution, 1 gal. to 8 gals. water.	Certain insect eggs. Leaf-blister mite. Scale.
2. Delayed dormant. Just as the leafbuds are opening and the leaves are beginning to show green.	Bordeaux Mixture 5 lbs. to 50 gals. water. If scale is present, make application of Scalecide, 2 gals. to 50 gals. water. If pear psylla and aphids are troublesome, it will be necessary to make an application of Black Leaf 40, 16 ozs. to 50 gals. water.	Certain scale insects. Blister mite. Pear psylla. Aphids. Scab.
3. As soon as the petals of bloom are two-thirds off.	Nutonex Sulphur 3 lbs. to 50 gals. water, with Arsenate of Lead $1\frac{1}{4}$ lbs. to 2 lbs. Add 1 to 3 lbs. fresh Hydrated Lime to each 50 gals. spray.	Codling moth. Curculio. Scab. Leaf-spot.
4. 2 to 3 weeks after No. 3.	Same as in No. 3.	Codling moth. Curculio. Scab. Leaf-spot.
5. 6 to 7 weeks after No. 4	Bordeaux Mixture 5 to 6 lbs. to 50 gals. water.	Leaf-spot. Sooty fungus. Fly-speck.

## FOR CHERRIES

1. Dormant spray.	Scalecide 1 gal. to 15 gals. water if scale appears.	Certain scale insects.
2. 10 to 14 days before blossom-buds open.	Lime-Sulphur Solution: 1 gal. to 12 gals. water.	Brown rot. Leaf-spot.
3. As soon as the shucks (calyces) have shed.	Nutonex Sulphur 3 lbs. to 50 gals. water with 1 lb. Arsenate of Lead. Add 3 lbs. fresh Hydrated Lime to each 50 gals. spray.	Brown rot. Leaf-blight. Curculio.
4. When fruit is about the size of a pea.	Same as No. 3.	Same as No. 3.

## SPRAYING GUIDE

## FOR CHERRIES—Continued

Time of Application	Spray Material	Enemy
5. When the fruit is beginning to color.	Nutonex Sulphur 3 lbs. to 50 gals. water. Where cherry maggots are present, use 3 lbs. of Arsenate of Lead to 50 gals. water. Add 3 lbs. of fresh Hydrated Lime.	Brown rot. Leaf-blight. Maggot.

## FOR GRAPES

1. When buds are swelling.	Arsenate of Lead 3 lbs. to 50 gals. water and Bordeaux Mixture 5 lbs. to 50 gals. water.	Grapevine flea-beetle. Black-rot.
2. When shoots are 1 to 4 inches long and before blooming.	Bordeaux Mixture 6 to 8 lbs. and Arsenate of Lead 2 to 3 lbs. to 50 gals. water.	Flea-beetle. Black-rot. Downy mildew. Anthracnose. White rot.
3. Pre-blossom spray when shoots are 9 to 12 inches long.	Bordeaux Mixture 5 lbs. to 50 gals. water and 1½ lbs. of Arsenate of Lead.	Black rot. Chewing insects.
4. When blossoms are three-fourths off.	Bordeaux Mixture 5 lbs. to 50 gals. water and 1½ lbs. Arsenate of Lead to 50 gals. water.	Grape root-worm. Grape berry moth. Black rot. Downy mildew. Anthracnose. Leaf-folder.
5. Just before the grapes are large enough to touch.	Bordeaux Mixture 5 lbs. to 50 gals. water and 1½ lbs. Arsenate of Lead. If rose-bugs are present add 1 pint of molasses.	Ripe rot. Grape root-worm. Grape berry moth. Black rot.

If leaf hopper or other sucking insects are present use 16 ozs. of Black Leaf 40 to 50 gals. water and apply when temperature is above 80 degrees, if possible. Be sure to cover under side of leaves. Do not add Lime when Arsenate of Lead is used with the Bordeaux.

## FOR APPLE

In dormant season; when trees are leafless, preferably as buds are just starting to break.	Miscible Oils, Dry Lime Sulphur, 12-15 lbs. to 50 gals.	Scale Insects.
In spring when buds are bursting, showing green tips.	Nicotine, 1 to 800, added to lime-sulphur, 3 lbs. to 50 gal. plus 5 lbs. fresh Hydrated Lime.	Apple Aphids (lice). Scab.
When flower buds show pink, but before any have opened. (Other sprays as recommended for codling moth, below, will help control troubles in this group.)	Lime-Sulphur, 3 lbs. to 50 gals. plus 5 lbs. fresh Hydrated Lime, with 2 lbs. Arsenate of Lead.	Scab. Black rot. Bud Moth. Cankerworm. Tent Caterpillar. Curculio.
1. When most of the petals have fallen. (Calys spray.) 2. Approximately 3 weeks after bloom. 3. Approximately 10 weeks after the bloom. 4. Fifteen to seventeen weeks after the bloom.	Lime-Sulphur, 2-3 lbs. to 50 gal. plus 5 lbs. Hydrated Lime.  NOTE:—After weather becomes hot (from about July 1) reduce the strength of the Lime-Sulphur to about 1 to 1½ lbs. per 50 gal. with 1½ lbs. Arsenate of Lead. Repeat any of these applications if necessary. Necessary in South where there may be 3 broods in one season.	Codling Moth. Curculio.
Any time Rust appears.	Spraying not effective. Remove cedar trees near by. The rust cannot live without cedars on which it spends part of the year	Apple Rust, Cedar Rust.
	See under Pear—Fire Blight.	Blight.

**SPRAYING GUIDE****BLACKBERRY, RASPBERRY, AND DEWBERRY**

Time of Application	Spray Material	Enemy
1. In spring before growth starts.	Lime-Sulphur 12½ lbs. to 50 gals.	Anthracnose.
2. When new shoots are 6-8 inches.	4 lbs. Dry Lime-Sulphur to 50 gals.	Anthracnose.

**STRAWBERRY**

Before blossoms open. Additional applications as often as necessary.	Bordeaux and Arsenate of Lead, 4 lbs. to 50 gals.	Leaf Spot. Leaf Roller.
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Renew beds frequently. May mow off and burn foliage after berries are picked.

**SHADE TREES**

Spring and Summer.	3 lbs. Arsenate of Lead 97 gals. water.	Caterpillars. Measuring Worms. Canker Worms.
	Dig out with sharp knife.	Borers.

Shade trees are usually attacked by scale insects which may be controlled while trees are dormant with Scalecide: 1 gal. to 15 gals. water.

**FOR PECANS AND ENGLISH WALNUTS AND OTHER NUT TREES**

1. When nuts are about as large as garden peas.	Bordeaux Mixture 5 to 6 lbs. to 50 gals. water with 2 lbs. Arsenate of Lead.	Scab. Case-bearer. Weevil.
2. 10 to 14 days after No. 1.	Same as No. 1.	Same as No. 1.
3. 2 to 3 weeks after No. 2.	Same as No. 1.	Same as No. 1.
4. Between Aug. 15 and Sept. 15.	Arsenate of Lead 2 lbs. to 50 gals. water.	Leaf-Spot. Case-bearer.

For borers, inject carbon disulphide, close holes with putty or clay.

The all-out War Effort in which the United States is engaged at the present time has brought with it many regulations covering priorities, transportation, and anti-inflation price control which profoundly affect the production, distribution, and sale of practically every item that is in commerce today. The effect of these regulations is felt by every type of industry, and the nursery industry is no exception. However, in so much as nursery stock is not a "cost-of-living" item, and also due to the fact that the nursery industry is considered as agricultural, the industry is not as fully covered by as many of these orders and regulations as are some other types of industry. We are doing our best to co-operate with the War Effort, and wish you to bear in mind that we, like others, have lost many of our skilled workers to the War Effort. Notwithstanding this, we will endeavor to give you the same prompt and efficient service as heretofore, and trust you will favor us with order for your full requirements.

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**McMinnville, Tennessee**



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